

#### **DRAFT**

#### KING COUNTY

# BEST AVAILABLE SCIENCE REVIEW AND ASSESSMENT OF DRAFT CRITICAL AREAS ORDINANCE AND STORMWATER ORDINANCE:

## LITERATURE REVIEWED

February 21, 2003

#### FLOOD HAZARD AREAS

Bolton, S., and J. Shellberg. 2001. Ecological issues in floodplains and riparian corridors. White paper prepared for Washington Department of Fish and Wildlife, Washington Department of Ecology and Washington Department of Transportation. University of Washington, Center for Streamside Studies. Seattle, Washington.

Carlton, D.K., B. Barker, R. Nelson, and J. Stypula. 1989. Effect of lost floodplain storage on flood peaks. In Partnerships: Effective Flood Hazard Management. Proceedings of the 13<sup>th</sup> Annual Conference of the Association of State Floodplain Managers, May 22<sup>nd</sup> - 27<sup>th</sup>, Scottsdale, Arizona.

Conrad, D.R., B. McNitt, and M. Stout. 1998. Higher Ground: A report on voluntary property buyouts in the nation's floodplains, a common ground solution serving people at risk, taxpayers and the environment, National Wildlife Federation, Washington, D.C.

DeVries, J.J. 1980. Effects of flood plain encroachments on peak flow. The Hydrologic Engineering Center, U.S. Army Corps of Engineers, Davis, California.

Federal Emergency Management Agency. 2002. Guidelines and Specifications for Flood Hazard Mapping Partners. Executive Summary. February Edition.

Federal Emergency Management Agency. 2001a. Floodplain management: higher regulatory standards. Region 10. 2<sup>nd</sup> Edition. August.

Federal Emergency Management Agency. 2001b. Modernizing FEMA's flood hazard mapping program: Recommendations for using future-conditions hydrology for the National Flood Insurance Program. Final Report. November. Hazards Study Branch, Federal Insurance and Mitigation Administration.

Federal Emergency Management Agency. 2001c. Flood insurance study, King County, Washington and Incorporated Areas. December 6.

Gippel, C.J., I.C. O'Neill, B.L. Finlayson, and I. Schnatz. 1996. Hydraulic guidelines for the reintroduction and management of large woody debris in lowland systems. Regulated Rivers Research and Management 12: 223-236.

Gippel, C.J., I.C. O'Neill, and B.L. Finlayson. 1992. The hydraulic basis of snag management. Centre for Environmental Applied Hydrology, Department of Civil and Agricultural Engineering, University of Melbourne, Parkville, Australia.

Johnson, A.W., and J.M. Stypula. 1993. Guidelines for Bank Stabilization Projects in the Riverine Environments of King County. King County Department of Public Works, Surface Water Management Division, Seattle, Washington.

King County. 1993. King County Flood Hazard Reduction Plan. Final. King County Department of Public Works, Surface Water Management Division, Seattle, Washington.

Larson, L.L., and D. Plasencia. 2001. No adverse impact: a new direction in floodplain management policy. Natural Hazards Review, November, Vol 2, No 4. ISSN 1527-6988, Natural Hazards Center, University of Colorado, Boulder, Colorado.

Maddock. 1976. A primer on floodplain dynamics. Journal of Soil and Water Conservation. 31:44-47.

Montgomery, D.R., and J. Buffington. 1993. Channel classification: prediction of channel response and assessment of channel condition. Washington Department of Natural Resources. Report TFW-SH10-93-002.

Poff, N.L., J.D. Allan, M.B. Bain, J.R. Karr, K.L. Prestegaard, B.D. Richter, R.E. Sparks, and J.C. Stromberg. 1997. The natural flow regime: a paradigm for river conservation and restoration. BioScience 47:769-784.

Shields, F.D. Jr., and N.R. Nunnally. 1984. Environmental aspects of clearing and snagging. Journal of Environmental Engineering. 110:152-165.

U.S. Department of Agriculture. 1998. Stream corridor restoration: principles, processes, and practices. National Engineering Handbook 210-VI, Natural Resources Conservation Service, Washington, D.C.

United States. 2002. Code of Federal Regulations. Title 44, Emergency management and assistance, Parts 59-78, National Flood Insurance Program, Washington, D.C.

United States. 1994. Riegle Community Development Act. Public Law 103-325, Section 511, Title V – National Flood Insurance Reform.

# **CHANNEL MIGRATION ZONES**

Abbe, T.R., and D.R. Montgomery, 1996. Large woody debris jams, channel hydraulics and habitat formation in large rivers. Regulated Rivers: Research and Management, Vol. 12. 201-221.

Bolton, S., and J Shellberg. 2001. Aquatic Habitat Guidelines White Paper: Ecological Issues in Floodplains and Riparian Corridors. Prepared for WA State Dept of Fish and Wildlife and others.

Federal Emergency Management Agency. 1994. National flood insurance reform act.

Federal Emergency Management Agency. 1999. Riverine erosion hazard areas: mapping feasibility study. FEMA, Technical Services Division, Hazards Study Branch.

Federal Emergency Management Agency. 2002. Guidelines and specifications for flood hazard mapping partners.

Graf, W.L. 1984. A probabilistic approach to spatial assessment of river channel instability. Water Resources Research. Vol. 20. P 953.

Keller, E.A., and F.J. Swanson. 1979. Effects of large organic material on channel form and fluvial processes. Earth Surface Processes 4:361-380.

King County. 1993. Flood Hazard Reduction Plan. Surface Water Management Division, King County Dept of Public Works, Seattle, Washington. November 1993.

King County. 1999. Channel migration public rule.

Knighton, D. 1998. Fluvial form and processes. Wiley and Sons, New York. 383 pp.

Leopold, L.B, M.G. Wolman, and J.P. Miller. 1964. Fluvial processes in geomorphology. Dover publications, New York. 522 pp.

May, C.W. 2002. Protection of stream-riparian ecosystems: a review of best available science. Prepared for Kitsap County Natural Resources Coordinator.

Naiman, R.J., T.J. Beechie, L.E. Benda, D.R. Berg, P.A. Bisson, L.H. MacDonald, M.D. O'Connor, P.L. Olson, E.A. Steel. 1992. Fundamental elements of ecologically healthy watersheds in the Pacific Northwest coastal ecoregion. Pp. 127-188 *in* R.J. Naiman, editor. Watershed Management: Balancing sustainability and environmental change. Springer-Verlag, New York NY.

Perkins, S.J. 1993. Green River channel migration study. King County Dept of Public Works, Surface Water Management Division, Seattle, Washington.

Pess, G. 1998. Comments on Volume IV - Pacific Lumber Company habitat conservation plans, sustained yield plan/habitat conservation plan, Public Review Draft July 1998.

Pierce County. 2002. Draft Critical Areas Ordinance. May 2002.

Pollock, M.M., and P.M. Kennard. 1999. A Low Risk Strategy for Preserving Riparian Buffers Needed to Protect and Restore Salmonid Habitat in Forested Watersheds of Washington State. 10,000 Years Institute, Bainbridge Island, Washington.

Schumm, S. 1977. The fluvial system. Wiley and Sons, New York. 337 pp.

Skidmore, P.B., P. Cooper, and K.F. Boyd. 1999. Methodology for determining meander corridor limits. *In* Proceedings of the American Water Resources Association Annual Water Resources Conference, Seattle, Washington, December, 1999.

US Fish and Wildlife Service. 1998. Bull Trout interim conservation guidance, USFWS. Lacey, Washington.

Washington Dept of Natural Resources. 2001. State Forest Practice Board Manual: Channel migration zones and bankfull channel features.

Washington State Dept of Ecology. 2000. Shoreline Management Act.

Washington State Forest Practices Appeals Board. 2002. Washington Environmental Council and Washington Trout vs. State of WA DNR and Weyerhaeuser Company. Findings of fact, conclusions of law, and order.

## **GEOLOGIC HAZARD AREAS**

#### Seismic Hazard Areas

Atwater, B.F. 1987. Evidence for great Holocene earthquakes along the outer coast of Washington State. Science 236(4804):942-944.

Atwater, B.F. 1988. Geologic studies for seismic zonation of the Puget lowland. *In* National earthquake hazards reduction program, summaries of technical reports, V. 25: U.S. Geological Survey Open-File Report 88-16, p. 120-133.

Atwater, B.F., W. Grant. 1987. Holocene subduction earthquakes in coastal Washington

Atwater, B.F, and A.L. Moore. 1992. A tsunami about 1000 years ago in Puget Sound, Washington. Science 258:1614-1617.

Beget, J.E. 1983. Glacier Peak, Washington-A potentially hazardous Cascade volcano: Environmental Geology, 5(2):83-92.

Crandell, D.R. 1973. Map showing potential hazards from future eruptions of Mount Rainier, Washington: U.S. Geological Survey Miscellaneous Investigations Map 1-836, 1 sheet, scale 1:250,000.

Crandell, D.R., and D.R. Mullineaux. 1967. Volcanic hazards at Mount Rainier Washington: U.S. Geological Survey Bulletin 1238, 26 p.

Crandell, D.R., and D.R. Mullineaux. 1978. Potential hazards from future eruptions of Mount St. Helens volcano, Washington: U.S. Geological Survey Bulletin 1383-C, 26 p.

Crosson, R.S. 1983. Review of seismicity in the Puget Sound region from 1970 through 1978. *In* Yount, J.C.; Crosson, R. S., editors. Proceedings of Conference XIV, Earthquake hazards of the Puget Sound region, Washington: U.S. Geological Survey Open- File Report 83-19, p. 6-18.

Crosson, R.S., and D.G. Frank. 1975. The Mt. Rainier earthquake of July 18, 1973, and its tectonic significance: Seismological Society of America Bulletin, v. 65, no. 2, p. 393-401.

Evans, S.G. 1986. Landslide damming in the Cordillera of western Canada. *In* Schuster, R.L., editor. Landslide dams—processes, risk and mitigation: American Society of Civil Engineers Geotechnical Special Publication 3, p. I 1 1- 1 30.

Gower, H.D., J.C. Yount, and R.S. Crosson. 1985. Seismotectonic map of the Puget Sound region, Washington: U.S. Geological Survey Miscellaneous Investigations Series Map 1-1613

Hansen, W.R. 1966. Effects of the earthquake of March 27, 1964, at Anchorage, Alaska: U.S. Geological Survey Professional Paper 542-A, 68 p

Heaton, T.H., and S.H. Hartzell. 1986. Source characteristics of hypothetical subduction earthquakes in the northwestern United States: Seismological Society of America Bulletin, v. 76, no. 3

Ihnen, S., and D.M. Hadley. 1986. Prediction of strong ground motion in the Puget Sound region—The 1965 Seattle earthquake: Seismological Society of America Bulletin, v. 76, no. 4

Keefer, D.K. 1983. Landslides, soil liquefaction, and related ground failures in Puget Sound earthquakes. *In* Yount J.C., and R.S. Crosson, editors. Proceedings of Conference XIV, Earthquake hazards of the Puget Sound region, Washington: U.S. Geological Survey Open-File Report 83-19, p. 280-299.

Langston, C.A. 1981. A study of Puget Sound strong ground motion: Seismological Society of America Bulletin, v. 71, no. 3

Langston, C.A., and J.J. Lee. 1983. Effect of structure geometry on strong ground motions-The Duwamish River Valley, Seattle, Washington: Seismological Society of America Bulletin, v. 73, no. 6

McCulloch, D.S., and M.G. Bonilla. 1970. Effects of the earthquake of March 27, 1964, on the Alaska railroad: U.S. Geological Survey Professional Paper 545-D, 161 p.

McLucas, G.B. ed. 1980. Preliminary fault map of Washington: Washington Division of Geology and Earth Resources Open-File Report 80-2, 5 p., 1 plate, scale 1: 1,000,000.

Newmark, N.M., and W.J. Hall. 1982. Earthquake spectra and design: Earthquake Engineering Research Institute Monograph, v. 3, 103 p.

Plafker, G. 1969. Tectonics of the March 27, 1964, Alaska earthquake *in* The Alaska earthquake, March 27, 1964-Regional effects: U.S. Geological Survey Professional Paper 543-1, 74 p

Rasmussen, N.H., R.C. Millard, and S.W. Smith. 1974. Earthquake hazard evaluation of the Puget Sound region Washington State: University of Washington Department of Earth and Space Sciences. Seattle, Washington.

Reinhart, M.A. and J. Bourgeois. 1987. Distribution of anomalous sand at Willapa Bay, Washington—Evidence for large-scale landward-directed processes [abstract]: EOS (American Geophysical Union Transactions), v. 68, no. 44.

Stanley, D., A. Villaseñor, and H. Benz. 1999. Subduction Zone and Crustal Dynamics of Western Washington: A Tectonic Model for Earthquake Hazards Evaluation. 64 pp.

University of Washington. 2000. University of Washington, Department of Geophysics. Tsunami! Website: http://www.geophys.washington.edu/tsunami/.

Wiegel, R. L. 1970. Tsunamis. *In* Wiegel, R.L., editor. Earthquake engineering. Prentice-Hall, Inc., p. 253-308.

Wilson, B.W., and A.F. Torum. 1972. Effects of the tsunamis—an engineering study. *In* National Research Council Committee on the Alaska earthquake. The great Alaska earthquake of 1964, Oceanography and coastal engineering, p. 361-523.

#### **Erosion Hazard Areas**

Coastal Engineering – Coastal Hazards – Sea Grant Program – various publications, University of Wisconsin, 2002

Daniels, R.B., and R.D. Hammer. 1992. Soil Geomorphology. Wiley and Sons.

Dietrich, W.E., C.J. Wilson, D.R. Montgomery, J. McKean, and R. Bauer. 1992. Erosion thresholds and land surface morphology. Geology 20:675-679.

King County. 1990. Sensitive Areas Map Folio.

University of Washington, King County, WSDOT. 2002. Regional Road Maintenance Endangered Species Act Program Guidelines.

## **Landslide Hazard Areas**

Ashmore, P. 1993. Contemporary Erosion of the Canadian Landscape, Progress in Physical Geography 17(2):190-204.

Abbe, T.B., and D.R. Montgomery. 1996. Large woody debris jams, channel hydraulics and habitat formation in large rivers, Regulated Rivers-Research & Management 12(2-3):201-221.

Benda, L., and T. Dunne. 1997. Stochastic forcing of sediment supply to channel networks from landsliding and debris flow. Water Resources Research, 33(12):2849-2863.

Booth, D.B. 1989. Runoff and stream channel changes following urbanization in King County *in* Engineering Geology in Washington, Richard W. Galster, ed.: Washington Division of Geology and Earth Resources Bulletin 78(2):639-649.

Gray, D., and W. Megahan. 1981. Forest vegetation removal and slope stability in the Idaho batholith. USDA Research Paper INT-271, May.

Miller, R.D. 1973. Map showing relative slope stability in part of west-central King County, Washington: U.S. Geological Survey Miscellaneous Investigations Series Map, I-852-A, 1:48,000.

Mullineaux, D.R., H.H. Waldron, and M. Rubin. 1965. Stratigraphy and chronology of late interglacial and early Vashon glacial time in the Seattle area, Washington: U.S. Geological Survey Bulletin 1194-O, 10 p.

Mullineaux, D.R., T.C. Nichols, and R.A. Speirer. 1964. A zone of montmorillonitic weathered clay in Pleistocene deposits at Seattle Washington: U.S. Geological Survey Professional Paper 501-D, p. D99-D103.

Thorsen, G.W. 1989. Landslide provinces in Washington, *in* Engineering Geology in Washington, Richard W. Galster, ed.: Washington Division of Geology and Earth Resources Bulletin 78(1):71-89.

Tubbs, D.W. 1974a. Landslides in Seattle, Washington Division of Mines and Geology Information Circular 52, 15 p., scale 1:31,680.

Tubbs, D.W. 1974b. Landslides and associated damage during early 1972 in art of west central King County, Washington: U.S. Geological Survey Miscellaneous Investigations Series Map, I-852-B, 1:48,000.

#### Volcanic Hazard Areas

Press, F., and W. Siever. 1978. Earth. 2<sup>nd</sup> Edition. W.H. Freeman and Co., San Francisco, California.

Tilling, R.I. 1980. Monitoring active volcanoes, USGS Yearbook, fiscal year 1977, reprint, 11 pp.

Tilling, R.I. 1987. Eruptions of Mount St. Helens: Past, present, and future, Washington, D.C., U.S. Government Printing Office, 41 pp.

Tilling, R.I. 1989. Volcanic Hazards, short course in geology: v. 1, Washington, D.C., American Geophysical Union, 123 p.

Tilling, R.I., 1991, Reducing volcanic risk: Are we winning some battles but losing the war?, Earthquakes and Volcanoes, 22 (3), p. 133-137.

Tilling, R.I. and P.W. Lipman, 1993, Lessons in reducing volcano risk, Nature, 364, p. 277-280.

Waitt, R.B., L.G. Mastin, and J.E. Begét. 1995. Volcanic-hazard zonation for Glacier Peak Volcano, Washington: USGS Open-File Report 95-499

Williams, H., and A. McBirney. 1979. Volcanology. Freeman-Cooper and Co., San Francisco, California.

Wolfe, E.W., and T.C. Pierson. 1995. Volcanic hazard zonation for Mt. St. Helens, Washington, USGS Open-File Report 95-497

Woods, A. 2002. Volcanic Hazard at Proposed Yucca Mountain Nuclear Waste Repository, Geophysical Research Letters, Journal of the American Geophysical Union, July, 2002.

#### Coal Mine Hazard Areas

Amuedo and Ivey. 1978. Coal and clay mine hazard study and estimated unmined coal resources. Jefferson County, Colorado.

Carpenter, P.J., C. J. Booth, and M.A. Johnston. 1994. Application of surface geophysics to detection and mapping of mine subsidence fractures in drift and bedrock.

Crowell, D.L. 1995. The hazards of mine subsidence. Ohio Division of Geological Survey, Ohio Geology.

Richard W. Galster, et.al, Engineering Geology in Washington, Volume I, 1989, Washington State Department of Natural Resources, Division of Geology and Earth Resources, Bulletin 78.

Alfreds R. Jumikis, Rock Mechanics, 2<sup>nd</sup> Ed., 1983, Transtech Publications and Rutgers University

King County. 1990. Sensitive Areas Map Folio.

Pipkin and Trent. 1997. Geology and the Environment. 2nd edition.

## FISH AND WILDLIFE HABITAT CONSERVATION AREAS

#### **Aquatic Areas**

Agee, J.K. 1997. Fire management for the 21<sup>st</sup> century, *in* Kohm, K.A., and J.F. Franklin, eds., Creating a Forestry for the 21<sup>st</sup> Century. Island Press, Washington, D.C.

Anon. 2001. Ecology adopts new shoreline master program guidelines. Confluence (Quarterly newsletter exploring the Sate of Washington's waters and shorelands). Vol. 5(1):1-3. Wash. Department of Ecology, Olympia, Washington.

Baker, C., and H. Haemmerle. 1990. Native growth protection easements: survival and effectiveness. Technical report. King County Department of Development and Environmental Services, Renton, Washington.

Beechie, T., E. Beamer, and L. Wasserman. 1994. Estimating coho salmon rearing habitat and smolt production losses in a large river basin, and implications for habitat restoration. N. Am. J. Fish. Management. 14(4):797-811.

Beechie, T.J., and T.H. Sibley. 1997. Relationships between channel characteristics, woody debris, and fish habitat in northwestern Washington streams. Trans. Amer. Fish. Soc. 126:217-229.

Bilby, R. E., and P. A. Bisson. 1998. Function and distribution of large woody debris. Pages 324-346 *in* R. J. Naiman and R. E. Bilby, editors. River ecology and management: lessons from the Pacific coastal ecoregion. Springer-Verlag, New York.

Booth, D.B. 1987. Timing and processes of deglaciation along the southern margin of the Cordilleran ice sheet. Pages 71-90 *in* W.F. Ruddiman and H.E. Wright, Jr., editors. The geology of North America: North American and adjacent oceans during the last deglaciation. Geological Society of America, Boulder, Colorado.

Booth, D.B. 1989. Run-off and stream-channel changes following urbanization in King County, Washington. Pages 639-650 *in* R. Gallster, editor. Engineering Geology in Washington, Volume II: Washington Division of Geology and Earth Resources Bulletin 78.

Booth, D.B. 1991. Urbanization and the natural drainage system – impacts, solutions and prognosis. The Northwest Environmental Journal 7:93-118

Booth, D.B. 2000. Forest Cover, Impervious surface area, and the mitigation of urbanization impacts in King County, Washington. Technical report prepared for King County Department Natural Resources, Seattle, Washington.

Booth, D.B., D. Hartley, R. Jackson. 2002. Forest cover, impervious surface area, and the mitigation of stormwater impacts. J. Amer. Water Res. Assoc. 38(3):835-845.

Booth, D.B., and P.C. Henshaw. 2001. Rates of channel erosion in small urban streams. Pages 17-38 *in* M.S. Wigmosta and S.J. Burges, editors. Land Use and Watersheds: human influences on hydrology and geomorphology in urban and forestry areas. Water and Science Application Volume 2. Amer. Geophysical Union, Washington, DC.

Booth, D.B., and L. E. Reinelt. 1993. Consequences of urbanization on aquatic systems—measured effects, degradation thresholds, and corrective strategies. In Watersheds '93 Proceedings, Alexandria, Virginia, March 21-24, pp. 545-550.

Bortelson, G.C., M.J. Chrzastowski, and A.K. Helgerson. 1980. Historical changes of shoreline and wetland and eleven major deltas in the Puget Sound region, Washington. Atlas HA-617. Department of the Interior, U.S. Geological Survey.

Canning, R.D., and H. Shipman. 1995. The cumulative effects of shoreline erosion control and associated land clearing practices, Puget Sound, Washington. Coastal erosion Management Studies, Volume 10. Shorelands and Water resources Program, Washington Department of Ecology.

Cederholm, C.J., D.B. Houston, D.L. Cole, and W.J. Scarlett. 1989. Fate of coho salmon (*Oncorhynchus kisutch*) carcasses in spawning streams. Can. J. Fish. Aquat. Sci., Vol 46:1347-1355.

Cederholm, C.J., Kunze, M.D., Murota, T., and A. Sibatani. 1999. Pacific salmon carcasses: essential contributions of nutrients and energy for aquatic and terrestrial ecosystems. Fisheries 24(10):6-16.

Chase, V.P., L.S. Deming, F. Latawiec. 1995 (Revised 1997). Buffers for wetlands and surface waters: a guidebook for New Hampshire Municipalities. Audubon Society of New Hampshire, 80 pp.

Collins, B.D., and D.R. Montgomery. 2002. Forest development, wood jams, and restoration of floodplain rivers in the Puget lowland, Washington. Restoration Ecology 10(2):237-247.

Collins, B.D., D.R. Montgomery, and A.D. Haas. 2002. Historical changes in the distribution and functions of large wood in Puget lowland rivers. Can. J. Fish Aquat. Sci. 59:66-76.

DesBonnet, A., P. Pogue, V. Lee, and N. Wolff. 1994. Vegetated buffers in the coastal zone—a summary review and bibliography. Coastal Resources Center Technical Report No. 2064. University of Rhode Island Graduate School of Oceanography, Narragansett, Rhode Island. 72 p.

Downing, J. 1983. The coast of Puget Sound: its processes and development. University of Washington Press, Seattle, Washington. 126 p.

Everett, R.A., and G.M. Ruiz.1993. Coarse woody debris as a refuge from predation in aquatic communities: an experiment test. Oecologia 93:475-486.

Franklin, J.F. 1988. Pacific Northwest forests. Pages 103-130 *in* M.G. Barbour and W.D. Billings, editors. North American terrestrial vegetation. Cambridge University Press, Cambridge.

Frissell, C.A. 1991. Topology of extinction and endangerment of native fishes in the Pacific Northwest and California (U.S.A.). Conservation Biology 7(2):342-354.

Frissell, C.A., and Nawa, R.K. 1992. Incidence and causes of physical failure of artificial habitat structures in streams of western Oregon and Washington. N. Am. J. Fish. Manage. 12:182-187.

Gende, S.M., R.T. Edwards, M.F. Willson, and M.S. Wipfli. 2002. Pacific salmon in aquatic and terrestrial ecosystems. BioScience 52(10):917-928.

Gerstel, W.J., M.J. Brunengo, W.S. Lingley, Jr., R.L. Logan, H. Shipman, and T. Walsh. 1997. Puget Sound bluffs: the where, why, and when of landslides following the holiday 1996/97 storms. Washington Geology 25(1):17-31.

Gordon, N.D., T.A. McMahon, and B.L. Finlayson. 1992. Stream hydrology: and introduction for ecologists. John Wiley & sons Ltd., New York.

Gregory, S.V., F.J. Swanson, W.A. McKee, and K.W. Cummins. 1991. An ecosystem perspective of riparian zones: focus on links between land and water. BioScience. 41(8):540-551.

Haberstock, A.E., H.G. Nichols, M.P. DesMeules, J. Wright, J.M. Christensen, and D.H. Hudnut. 2000. Method to identify effective riparian buffer widths for Atlantic salmon habitat protection. J. Amer. Water Res. Assoc. 36(6):1271-1286.

Harr, R.D., W.C. Harper, and J.T. Kygier. 1975. Changes in hydrographs after road building and clear-cutting in the Oregon Coast Range. Water Resources research 11(3):436-444.

Heede, B. H. 1985. Channel adjustments to the removal of log steps: an experiment in a mountain stream. Environmental Management 9(5): 427-432.

Hicks, B.J., R.L. Beschta and R. D. Harr. 1991. Long-term changes in streamflow following logging in western Oregon and associated fisheries implications. Water resources Bulletin 27(2):217-226.

Hynes, H. B. N. 1972. The ecology of running waters. University of Toronto Press, Toronto, Ontario, Canada.

Independent Multidisciplinary Science Team. 2002. Recovery of wild salmonids in western Oregon lowlands. Technical report 2002-1 to the Oregon plan for salmon and watersheds, Governor's Natural Resources Office, Salem, Oregon.

Jackson, C.R., S.J. Burges, X. Liang, K. M. Laytham, K.R. Whiting, D.M. Hartley, C.W. Crawford, B.N. Johnson, and R.R. Horner. 2001. Development and application of simplified continuous hydrologic modeling for drainage design and analysis. Pages 39-58 *in* M.S. Wigmosta and S.J. Burges, editors. Land Use and Watersheds: human influences on hydrology and geomorphology in urban and forestry areas. Water and Science Application Volume 2. Amer. Geophysical Union, Washington, DC.

Jackson, C.R., and C.A. Sturm. 2002. Woody debris and channel morphology in first- and second-order forested channels in Washington's coast ranges. Water Resources Research 38(9):1-14.

King County. 1987. Basin Reconnaissance program: program summary – volume 3 technical appendix. King County Department of Public Works, Seattle, Washington.

King County. 1990. King County Wetlands Inventory: volume 1. King County Department Public Works, Seattle, Washington.

Kondolf, G.M. 2000. Some suggested guidelines for geomorphic aspects of anadromous salmonid habitat restoration proposals. Restoration Ecology 8(1):48-56.

Lee, K.E., R.M. Goldstein, and P.E. Hanson. 2001. Relation between fish communities and riparian zone conditions at two spatial scales. J. Amer. Water Resources Assoc. 37(6):1465-1473.

Levings, C., and G. Jamieson. 2001. Marine and estuarine riparian habitats and the role in coastal ecosystems, Pacific region. Research Document 2001/109, Canadian Science Advisory secretariat, Fisheries and Oceans Canada, Science Branch. (NOTE: the cover to this document says it should not be cited without permission of the authors; that permission has not been obtained.)

Lucchetti, G., and R. Fuerstenberg, Robert. 1993. Management of coho salmon habitat in urbanizing landscapes of King County, Washington, USA. Pages 308-317 in L. Berg and P. Delaney, editors. Proc. of the 1992 coho workshop, Nanaimo, British Columbia. North Pacific International Chapter, American Fisheries Society, and Association of Professional Biologists of British Columbia, Vancouver, British Columbia.

Ludwa, K., G. Lucchetti, K. Fresh, and K Walter. 1997. Assessing stream-dwelling fish in basins of the Lake Washington watershed, summer 1996. King County Department of Natural Resources, Washington Department of Fish and Wildlife and Muckleshoot Indian Tribe.

Maser, C., R. Tarrant, J. M. Trappe, and J. F. Franklin. 1988. From the forest to the sea: a story of fallen trees. Gen. Tech. Rep. PNW-GTR-299. Pacific Northwest Research Station, U.S. Department of Agriculture, Forest Service, Portland, Oregon

May, C.W., R.R. Horner, J.R. Karr, B.W. Marr, and E.B. Welch. 1997. Effects of urbanization on small streams in the Puget Sound Lowland Ecoregion. Watershed Protection Techniques 2(4):483-494.

McKinney, M.L. 2002. Urbanization, biodiveristy, and conservation. BioScience 52(10):883-890.

Ministry of Forests. 1996. The scientific panel for sustainable forest practices in Clayoquot Sound (http://www.forestyr.ubc.ca/conservation/panel./clayhome.html).

Moscrip, A.L., and D.R. Montgomery. Urbanization, flood frequency, and salmon abundance in Puget lowland streams. J. American Water Resources Association 33(6):1289-1297.

Naiman, R.J., T.J. Beechie, L.E. Benda, P.A. Bisson, L.H. MacDonald, M.D. O'Connor, C. Oliver, P. Olson, and E.A. Steel. 1992. Fundamentals elements of ecologically healthy watersheds in the Pacific Northwest Coastal Ecoregion. Pp. 127-188 *in* R.J. Naiman, editor. Watershed Management: balancing sustainability and environmental change. Sprinerg-Verlag, NY.

National Research Council. 1995. Upstream: salmon and people in the Pacific Northwest. Committee on Protection and management of Pacific Northwest anadromous salmonids, Board on Environmental Studies and Toxicology, Commission on Life Sciences, National Research Council, Washington, DC.

Palmer, L. 1998. Puget Sound coastal bluff landsliding: magnitude, mechanism and management. ASCE Geotechnical Symposium, April, 1998.

Palone, R.S., and A.H. Todd (eds). 1997. Chesapeake Bay riparian handbook: a guide for establishing and maintaining riparian forest buffers. USDA Forest Service. NA-TP-02-97 Radnor, Pennsylvania.

Parametrix, Inc. 2002. Biological Review Tri-County Model 4(d) Rule Response Proposal. Prepared for Tri-County Salmon Conservation Coalition.

Pearson, T.N. and C.W. Hopley. 1999. A Practical Approach for Assessing Ecological Risks Associated with Fish Stocking Programs. Fisheries 24(9):16-23.

Pentilla, D.E. 2001. Effects of shading upland vegetation on egg survival for summer spawning surf smelt on upper intertidal beaches in Puget Sound. In Proc. Puget Sound Research 2001.

Pess, G.R., D.R. Montgomery, E.A. Steel, R.E. Bilby, B.E. Feist, and H.M. Greenberg. 2002. Landscape characteristics, land use, and coho salmon (*Oncorhynchus kisutch*) abundance, Snohomish River, Washington State, USA. Canadian Journal of Fisheries and Aquatic Sciences 59:613-623.

Portland Metro. 1999. Development of measures to conserve, protect and restore riparian corridors in the Metro Region: "Streamside CPR". Metro Growth Management Services, Portland, Oregon. 113 p.

Quinn, T.P., and N.P. Peterson. 1994. The effect of forest practices on fish populations. Final Report, WA Department Nat. Res. and the Coop. Monit. and Res. Comm. Timber-Fish-Wildlife Prog., May, 1994. 155 pp.

Ralph, S.C., G.C. Poole, L.L. Conquest, and R.J. Naiman. 1994. Stream channel morphology and woody debris in logged and unlogged basins of western Washington. Can. J. Fish. Aquat. Sci. 51:37-51.

Reeves, G.H., L.E. Benda, K.M. Burnett, P.A. Bisson, and J.R. Sedell. 1995. A disturbance-based ecosystem approach to maintaining and restoring freshwater habitat of evolutionarily significant units of anadromous salmonids in the Pacific Northwest. Pp. 334-349 in J.L. Nielsen, editor. Evolution and the aquatic ecosystem: defining unique units in population conservation. American Fisheries Society Symposium 17, Bethesda, Maryland.

Reice, S.R., R.C. Wissmar, and R.J. Naiman. 1990. Disturbance regimes, resilience, and recovery of animal communities and habitats in lotic ecosystems. Environmental Management 14(5):647-659.

Richards, K. 1982. Rivers: form and process in alluvial channels. Methuen & Co., Ltd., New York, USA. 361 p.

Roni, P., T.J. Beechie, R.E. Bilby, F.E. Leonetti, M.M. Pollock, and G.R. Pess. 2002. A review of stream restoration techniques and a hierarchical strategy for prioritizing restoration in the Pacific Northwest watersheds. North American Journal of Fisheries Management 22:1-20.

Roni, P., and T.P. Quinn. 2001. Density and size of juvenile salmonids in response to placement of large woody debris in western Oregon and Washington streams. Can. J. Fish. Aquat. Sci. 58:282-292.

Roper, B., D. Kondolf, D. Heller, and K. Wieman. 1998. Durability of Pacific Northwest instream structures following floods. N. Am J. Fish. Manage. 18:686-693.

Schindler, D.E., and M.D. Scheuerell. 2002. Habitat coupling in lakes. Oikos 98:177-189.

Scholz, N.L., N.K. Truelove, B.L. French, B.A. Berijikian, T.P. Quinn, E. Castillas, and T.K. Collier. 2000. Diazinon disrupts antipredator and homing behaviors in chinook salmon (*Oncorhynchus tshawytscha*). Can. J. Fish Aquat. Sci. 57:1911-1918.

Sedell, J.R., and R.L. Beschta. 1991. Bringing back the "bio" in bioengineering. American Fisheries Society Symposium 10:160-175

Sedell, J.R., P.A. Bisson, F.J. Swanson, and S.V. Gregory. 1988. What we know about large trees that fall into streams and rivers. Pages 47 – 82 *in* Maser et al. editors. From the forest to the sea: a story of fallen trees. Gen. Tech. Rep. PNW-GTR-299. Pacific Northwest Research Station, U.S. Department of Agriculture, Forest Service, Portland, Oregon.

Simenstad, C.A., S.B. Brandt, A. Chalmers, R. Dame, L.A. Deegan, R. Hodson, and E.D. Houde. 2000. Habitat-biotic interactions. Pages 427-455 *in* J.E. Hobbie, editor, Estuarine Science: a synthetic approach to research and practice. Island Press, Covelo, California.

Staude, C. 1984. The amphipod genus *Paramoera* Miers (Gammeridae:Eusiroidae:Pontogeneiidae) in the Eastern North Pacific Amphipacifica 1:61-102.

Stewart, J.S., L. Wang, J. Lyons, J.A. Horwatich, and R. Bannerman. 2001. Influences of watershed, riparian-corridor, and reach-scale characteristics on aquatic biota in agricultural watersheds. J. Amer. Water Resources Assoc. 37(6):1475-1487.

Swanson, F.J., Gregory, S.V., J.R. Sedell and A.G. Campbell. 1982. Land-water interactions: The riparian zone, pages 267-291. *In* Edmonds, R.L., editor. Analysis of coniferous forest ecosystems in the western United States. U.S. Int. Biolg. Prog. Synthesis Series 14. Hutchinson Ross, Stoudsburg, PA.

Ulrike, Z, and A. Peter. 2002. The introduction of woody debris into a channelized stream: effect on trout populations and habitat. River Research and Applications 18:355-366.

Waters, T.F. 1995. Sediment in streams: sources, biological effects, and control. American fisheries Monograph 7, American fisheries Society, Bethesda, Maryland, 251 pp.

Welch, E. B., J. M. Jacoby, C. W. May. 1998. Stream quality. Pages 69-96 *in* R. J. Naiman and R. E. Bilby, editors. River ecology and management: lessons from the Pacific coastal ecoregion. Springer-Verlag, New York.

White, R.J. 1991. Resisted lateral scour in streams—its special importance to salmonid habitat and management. American Fisheries Society Symposium 10:200-203.

Williams, G.D., R.M. Thom, J.E. Starkes, J.S. Brennan, J.P. Houghton, D. Woodruff, P.L. Striplin, M.Miller, M. Pederson, A. Skillman, R. Kropp. A. Borde, C. Freeland, K. McArthur, V. Fagerness, S. Blanton, and L. Blackmore. 2001. Reconnaissance assessment of the state of the nearshore ecosystem: eastern shore of central Puget Sound, including Vashon and Maury islands (WRIAs 8 and 9). J.S. Brennan, editor. Report prepared for King County Department Natural Resources, Seattle, Washington.

With, K.A. 2001. The landscape ecology of invasive spread. Conservation Biology 16(5):1192-1203.

#### **Terrestrial Areas**

Agee, J.K. 1995. Management of greenbelts and forest remnants in urban forest landscapes. Pages 128-138 in G. A. Bradley, editor. Urban Forest Landscapes: Integrating Multidisciplinary Perspectives. The University of Washington Press, Seattle, Washington.

Allaby, M., editor. 1999. A Dictionary of Zoology. Oxford University Press, Oxford, UK.

Allen, A.W. 1982. Habitat suitability index models: marten. General Technical Report FWS/OBS-82 (10.11). Washington, D.C.: USDI Fish and Wildlife Service. 9 pp.

Allen, A.W. 1983. Habitat suitability index models: fisher. General Technical Report FWS/OBS-82/10.45. Washington, D.C.: USDI Fish and Wildlife Service.

Allen, A.W. 1984. Habitat suitability and index models: mink. General Technical Report FWS/OBS-82 (10.61). Washington, D.C.: USDI Fish and Wildlife Service. 19 pp.

Almond, J.D. 1971. Federal Programs Affecting Wildlife. Pages 28-31 *in* R. D. Teague, editor. A Manual of Wildlife Conservation. The Wildlife Society, Washington, D.C.

Anderson, B.W., and S.A. Laymon. 1989. Creating habitat for the yellow-billed cuckoo (*Coccyzus americanus*). Pages 468-472 in USDA Forest Service, General Technical Report PSW-110.

Ashton, D. T., A. J. Lind, and K. E. Schlick. 1997. Western pond turtle (*Clemmys marmorata*). Natural history. USDA Forest Service, Southwest Research Station, Redwood Sciences Lab. Arcata, California.

Aubry, K. B. and D. B. Houston 1992. Distribution and status of the fisher (*Martes pennanti*) in Washington. Northwestern Naturalist 73:69-79.

Banci, V. 1994. Wolverine. Pages 99-127 *in* L.F. Ruggiero, K.B. Aubry, S.W. Buskirk, L.J. Lyon and W.J. Zielinski, eds. The scientific basis for conserving forest carnivores, American marten, fisher, lynx, and wolverine in the western United States. General Technical Report RM-254. Fort Collins, CO: USDA Forest Service, Rocky Mountain Forest and Range Experimental Station. 184 pp.

Bargmann, G. 1998. Forage fish management plan. Washington Department of Fish and Wildlife, Fish Management Program, Marine Resources Division, Olympia, Washington. 65 pp.

Bechert, D.M. and I.J. Ball. 1983. Merlin (*Falco columbarius*). pp. 124-137 *in* J. Armbruster, ed. Effects of surface mining on 30 species of special concern or interest. FWS/OBS: 83/35. U.S. Fish and Wildl. Serv. Office of Biol. Serv., Washington DC. 237 pp.

Beebe, F. L. 1974. Field studies of the Falconiformes of British Columbia: vultures, hawks, falcons, eagles. British Columbia Provincial Mus. Occ. Paper 17.

Bevers, M., and C.H. Flather. 1999. Numerically exploring habitat fragmentation effects on populations using cell-based coupled map lattices. Theoretical Population Biology 55:61-76.

Bissonette, J.A., R.J. Fredrickson and B.J. Tucker. 1991. American marten: a case for landscape-level management. Pages 117-134 *in* J.E. Rodiek and E.G. Bolan, eds. Wildlife and habitats in managed landscapes. Island Press, Washington, D.C.

Bowman, I., and J. Siderius. 1984. Management guidelines for the protection of heronries in Ontario. Ontario Ministry of Natural Resources, Wildlife Branch, Toronto, Ontario, Canada.

Brown, A.W.A. 1978. Ecology of pesticides. John Wiley and Sons, New York, New York.

Brown, E.R. 1985. Management of Wildlife and Fish Habitats in Forests of Western Oregon and Washington. Part I. Publication No. R6-F&WL-192-1985. Portland, OR: USDA Forest Service, Pacific Northwest Region. 332 pp.

Buckley, P.A., and F.G. Buckley. 1976. Guidelines for the protection and management of colonially nesting waterbirds. U.S. National Park Service, North Atlantic Regional Office, Boston, Massachusetts, USA.

Bull, E.L. 1987. Ecology of the Pileated Woodpecker in northeastern Oregon. J. Wildl. Manage. 51: 472-48 1.

Bull, E.L., and R.C. Beckwith. 1993. Diet and foraging behavior of Vaux's swift in northeastern Oregon. Condor 95:1016-1023.

Bull, E.L., and C.T. Collins. 1993. Vaux's swift (*Chaetura vauxi*). Number 77 *in* A. Poole and F. Gill, editors. The Birds of North America. Academy of National Science and American Ornithologists' Union, Philadelphia, Pennsylvania.

Bull, E.L., and H.D. Cooper. 1991. Vaux's swift nests in hollow trees. Western Birds 22:85-91.

Bull, E.L., and R.S. Holthausen. 1993. Habitat use and management of pileated woodpeckers in northeastern Oregon. Journal of Wildlife Management 57:335-345.

Bull, E.L., and J.A. Jackson. 1995. Pileated Woodpecker (*Dryocopus pileatus*). In A. Poole and F. Gill, editors, The Birds of North America, No. 148. Academy of Natural Sciences, Philadelphia, and American Ornithologists' Union, Washington, DC. 24 pp.

Bunnell, F.L., and A.S. Harestad. 1983. Dispersal and dispersion of black-tailed deer: models and observations. J. Mamm. 64:201-209.

Bushman, E.S., and G.D. Therres. 1988. Habitat management guidelines for forest interior breeding birds of coastal Maryland. Maryland Department of Natural Resources, Wildlife Tech. Publ. 88-1. 50 pp.

Buskirk, S.W. and L.F. Ruggiero 1994. American marten. Pages 7-37. *In* L.F. Ruggiero, K.B. Aubry, S.W. Buskirk, L.J. Lyon and W.J. Zielinski, eds. The scientific basis for conserving forest carnivores, American marten, fisher, lynx, and wolverine in the western United States. General Technical Report RM-254. Fort Collins, CO: USDA Forest Service, Rocky Mountain Forest and Range Experimental Station. 184 pp.

Butler, R.W. 1991. A review of the biology and conservation of the great blue heron (*Ardea herodias*) in British Columbia. Technical Report Number 154. Canadian Wildlife Service, Pacific and Yukon Region, British Columbia, Canada.

Butler, R.W. 1992. Great Blue Heron. No. 25 *in* A. Poole, P. Stettenheim, and F. Gill, editors. The Birds of North America. American Ornithologists Union and Academy of Natural Science, Philadelphia, Pennsylvania, USA.

Cade, B.S. 1984. Winter habitat preferences and migration patterns of blue grouse in Middle Park Colorado. Colorado Fish and Game (W-37-R) 01-03-045.

Cade, B.S., and R.W. Hoffman. 1990. Winter use of Douglas fir forests by blue grouse in Colorado. Journal of Wildlife Management 54:471-479.

Cassirer, E.F., and C.R. Groves. 1989. Breeding ecology of harlequin ducks (*Histrionicus histrionicus*) of the Kaniksu National Forest, Idaho. Idaho Department of Fish and Game, Boise, Idaho.

Cassirer, E.F., and C.R. Groves . 1994. Ecology of harlequin ducks in northern Idaho. Unpublished Report, Idaho Department of Fish and Game, Boise, Idaho, USA.

Chandler, S.K., J.D. Fraser, D.A. Buehler, and J.K.D. Seegar. 1995. Perch trees and shoreline development as predictors of bald eagle distribution on Chesapeake Bay. Journal of Wildlife Management 59:325-330.

Chapin, T.G., D.J. Harrison and D.D. Katnik 1998. Influence of landscape pattern on habitat use by American marten in an industrial forest. Conservation Biology 12:1327-1337.

Chasan, D.J. 1993. Mountains to Sound: The Creation of a Greenway across the Cascades. Sasquatch Books, Seattle, Washington.

Conner, R.N. 1979. Minimum standards and forest wildlife management. Wildlife Society Bulletin 7:293-296.

Couch, D., and T.J. Hassler. 1989. Species profiles: life histories and environmental requirements of coastal fishes and invertebrates (Pacific Northwest)--Olympia oyster. U.S. Fish Wildl. Serv. Biol. Rep. 82(11.124). U.S. Army Corps of Engineers, TR EL-82-4. 8 pp.

Dasmann, R.F. 1981. Wildlife Biology, 2nd edition. John Wiley & Sons, New York, NY.

Davis, J.W., G.A. Goodwin, and R.A. Ockenfels, editors. 1983. Snag management: proceedings of the symposium. USDA Forest Service, Gen. Tech. Rep. RM-99, Fort Collins, CO.

Dickman, C.R. 1987. Habitat fragmentation and vertebrate species richness in an urban environment. Journal of Applied Ecology 24:337-351.

Driver, C.J. 1991. Potential impacts of pesticide applications to fish and wildlife in forest environments. Draft Report, Washington Department of Wildlife, Battelle Pacific Northwest Laboratories, Richland, Washington, USA.

Environment Canada. 1997. Sustaining Canada's Forests: Timber Harvesting. National Environmental Indicator Series, SOE Bulletin No. 95-4. Available Online: http://199.212.18.79/~ind/English/Forest/Bulletin

Forest Ecosystem Management Assessment Team. 1993. Forest Ecosystem Management: An Ecological, Economic, and Social Assessment, United States Department of Agriculture, Forest Service.

Forsman, E.D. 1976. A preliminary investigation of the spotted owl in Oregon. Corvallis, OR: Oregon State University: 127p. Thesis.

Forsman, E.D. 1980. Habitat utilization by spotted owls in west-central Cascades of Oregon. Corvallis, Oregon: Oregon State University. 95p. Dissertation.

Forsman, E.D. 1981. Habitat utilization by spotted owls on the Eugene District of the Bureau of Land Management. Tech. Rep. Portland, Oregon: U.S. Department of the Interior, Bureau of Land Management. 63p.

Frankel, O.H., and M.E. Soulé. 1981. Nature reserves. Pages 97-132 in Conservation and Evolution. Cambridge University Press, Cambridge.

Freel, M. 1991. A literature review for management of the marten and fisher on national forests in California. U.S. Dept. of Agriculture, Forest Service, Pacific Southwest Region, Los Padres National Forest, July 1991.

Gaines, D. and S.A. Laymon. 1984. Decline, status and preservation of the yellow-billed cuckoo in California. Western Birds 15(2):49-80.

Gashwiler, J.S. 1959. Small mammal study in west-central Oregon. J. Mammal. 40(1):129-139.

Glover, F.A. 1953. A nesting study of the band-tailed pigeon in northwestern California. California Fish and Game 39:397-407.

Goggans, R., R.D. Dixon and L.C. Seminara. 1989. Habitat use by three-toed and black-backed woodpeckers, Deschutes National Forest, Oregon. Ore. Dept. Fish Wildl. - Nongame Wildl. Prog. USDA Deschutes Natl. For. Tech. Rep. 87-3-02. 43 pp.

Gorfryd, A., and R.I. Hansel. 1986. Prediction of bird-community metrics in urban woodlots. Pages 321-326 *in* J. Verner, M. L. Morrison, and C. J. Ralph, editors. Wildlife 2000, Modeling Habitat Relationships of Terrestrial Vertebrates. The University of Wisconsin Press, Madison, WI.

Grue, C.E., W.J. Fleming, D.G. Busby, and E.F. Hill. 1983. Assessing hazards of organophosphate pesticides to wildlife. Transactions of the North American Wildlife and Natural Resources Conference 48:200-220.

Gutierrez, R. J., C.E. Braun, and T.P. Zapatka. 1975. Reproductive biology of the band-tailed pigeon in Colorado and New Mexico. Auk. 92:665-677.

Hargis, C.D., C. McCarthy, and R.D. Perloff. 1994. Home ranges and habitats of northern goshawks in eastern California. Studies in Avian Biology 16:66-74.

Herlugson, C. 1975. Status and distribution of the western bluebird and the mountain bluebird in the state of Washington. Pullman, WA: Washington State University. Thesis.

Herson-Jones, L.M., M. Heraty, et al. 1995. Riparian buffer strategies for urban watersheds. Washington, DC, USA, Metropolitan Washington Council of Governments: 101.

Hertlein, L.G. 1959. Notes on California oysters. Veliger 2:5-10.

Holland, D.C. 1994. The western pond turtle: habitat and history. Oregon Department of Fish and Game Final Report.

Hoover, R.L., and D.L. Wills, editors. 1987. Managing forested lands for wildlife. Colorado Division of Wildlife, Denver, Colorado, USA.

Hughes, J.M. 1999. Yellow-billed Cuckoo (*Coccyzus americanus*). *In* The Birds of North America, No. 418. (A. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, PA.

Ingles, L.G. 1947. Ecology and life history of the California gray squirrel. Calif. Fish and Game 33:139-158.

Ingram, R. 1973. Wolverine, fisher and marten in central Oregon. Oregon State Game Comm., Central Reg. Admin. Rep. 73-2.

Interagency Marbled Murrelet Committee (IMMC). 1991. Interim Management Guidelines for Marbled Murrelet Habitat Conservation in Washington, Oregon and California. Pacific Seabird Group.

Jackman, S.M., and J.M. Scott. 1975. Literature review of 23 selected forest birds of the Pacific Northwest. USDA Forest Service, Portland, Oregon, USA.

Jensen, K.E., and P.D. Boersma. 1993. Land development and human disturbance as factors in determining great blue heron (*Ardea herodias*) colony size and location in the Puget Sound Region. Unpublished Report, University of Washington, Seattle, Washington, USA.

Johnsgard, P. A. 1973. Grouse and quails of North America. University of Nebraska Press, Lincoln, Nebraska, USA. 533pp.

Johnsgard, P.A. 1987. Diving birds of North America. Univ. Nebraska Press, Lincoln. xii + 292 pp.

Johnson, D.H., and T.A. O'Neil. 2001. Wildlife-Habitat Relationships in Oregon and Washington. Oregon State University Press, Corvallis, Oregon, USA.

Johnson, P.J. 1986. Letter on file with the Washington Department of Wildlife, Nongame Program, Olympia, Washington.

Kahler, T.,M. Grassley and D. Beauchamp 2001. Final report on effects of shorezone development. Prepared for the City of Bellevue by The Watershed Company and the University of Washington, School of Fisheries, Washington Cooperative Fish and Wildlife Research Unit, Bellevue, Washington.

Kautz, J.E. and C.E. Braun. 2000. Feasibility of estimating band-tailed pigeon population parameters using capture-recapture. Pp. 1-14 IN Studies of band-tailed pigeons. Colorado Division of Wildlife, Special Report Number 75.

Keane, J.J. and M.L. Morrison. 1994. Northern goshawk ecology: effects of scale and levels of biological organization. Studies in Avian Biology 16:3-11.

Kennedy, P.L., J.M. Ward, G.A. Rinker, and J.A. Gessaman. 1994. Post-fledging areas in northern goshawk home ranges. Studies in Avian Biology 16:75-82.

Keppie, D.M. and C.E. Braun. In press. Band-tailed Pigeon (*Columba fasciata*). *In A. Poole and F. Gill, editors, The Birds of North America. The Birds of North America, Inc., Philadelphia, Pennsylvania.* 

Kilham, L. 1966. Nesting activities of black-backed woodpeckers. Condor 68:308-310.

King County Surface Water Management Division, Snohomish County Surface Water Management, and City of Redmond Stormwater Division. 1990. Bear Creek Basin Plan. King County Surface Water Management Division, Seattle, Washington.

King County Surface Water Management Division, Washington State Department of Ecology, and City of Issaquah. 1996. Final Issaquah Creek Basin and Nonpoint Action Plan. King County Department of Natural Resources, Seattle, Washington.

King County. 1994. Final East Lake Sammamish Basin and Nonpoint Action Plan. King County, Surface Water Management, Seattle, Washington.

King County. 2000. King County Comprehensive Plan 2000.

King County. 2002. Public Benefit Rating System: Resource Information. King County Department of Natural Resources and Parks, Water and Land Resources Division, Seattle, Washington.

Kingsbury, P.D. 1975. Effects of aerial forest spraying on aquatic fauna *in* M. L. Prebble, editor. Aerial control of forest insects in Canada. Department of Environment, Ottawa, Ontario, Canada.

Knight, R.L., V. Marr, and S.K. Knight. 1983. Communal roosting of bald eagles in Washington. *In* R.G. Anthony; F.B. Isaacs, and R.W. Frenzel, editors. Proceedings of a workshop on habitat management for nesting and roosting bald eagles in the western United States. Oregon Cooperative Wildlife Research Unit, Department of Fisheries and Wildlife, Oregon State University, Corvallis, Oregon.

Knutson, K.L. and V.L. Leaf. 1997. Management recommendations for Washington's priority habitats: Riparian. Olympia, Washington, Washington Department of Fish and Wildlife: 181.

Koehler, G.M., W.R. Moore and R.A. Taylor 1975. Preserving the pine marten: management guidelines for western forests. Western wildlife 2:31-36.

Korringa, P. 1976. Farming the flat oysters of the genus *Ostrea*: A multidisciplinary treatise. Elsevier, Amsterdam. 238 pp.

Kuchel, C.R. 1977. Some aspects of the behavior and ecology of harlequin ducks in Glacier National Park, Montana. Thesis, University of Montana, Missoula, Montana, USA.

Larsen, E.M. 1997. Management recommendations for Washington's priority species, Volume III: Amphibians and Reptiles. WSDFW (Wash. Dept. Fish and Wildl.), Olympia, Washington.

Larsen, E.M., E. Rodrick, and R. Milner. 1995. Management recommendations for Washington's priority species. Volume I: Invertebrates. Washington Department of Fish and Wildlife, Olympia, Washington.

Laymon, S.A. 1980. Feeding and nesting behavior of the yellow-billed cuckoo in the Sacramento Valley. California Department of Fish and Game Administrative Report 80-2, Job IV-1.42.

Laymon, S.A. and M.D. Halterman. 1989. A proposed habitat management plan for Yellow-billed Cuckoos in California. USDA Forest Service Gen. Tech. Rep. PSW-110 p 272-277.

Leet, W.S., C.M. Dewees, R. Klingbeil, and E.J. Larson (eds.). 2001. California's Living Marine Resources: A Status Report. The Resources Agency, California Department of Fish and Game. 592 pp.

Leonard, J.P. 1998. Nesting and foraging ecology of band-tailed pigeons in western Oregon. Ph.D. dissertation, Oregon State University, Corvallis, Oregon.

Leopold, A. 1933. Game Management. Scribner's & Sons, New York, New York.

Lewis, J.C., R. Milner and M. Whalen. 1999. Common loon (*Gavia immer*). *In* E. M. Larsen and N. Nordstrom, editors. Management Recommendations for Washington's Priority Species, Volume IV: Birds

Lucchetti, G., K. Richter, and R. Schaefer. in revision. Monitoring of Acquisitions and Conservation Easements. in P. Roni, editor. Monitoring Stream and Watershed Restoration. American Fisheries Society, Bethesda, Maryland.

Lundquist, R., V.S. Kelly, S.T. White and R. Fleming 1995. Assessment of special emphasis wildlife species and other wildlife species of concern for the Plum Creek Habitat conservation Plan. Technical Report No. 8. Seattle WA: Plum Creek Timber Company. 75 pp.

Magnusson, W. E. 1994. The role of wildlife management in the maintenance of biodiversity. Pages 209-220 in S.K. Majumdar, F.J. Brenner, J.E. Lovich, J.F. Schalles, and E.W. Miller, editors. Biological Diversity: Problems and Challenges. The Pennsylvania Academy of Science.

Manuwal, D.A. 1991. Spring bird communities in the southern Washington Cascade Range. Pages 161-174 *In* L.F. Ruggiero, K.B. Aubry, A.B. Carey, and M.H. Huff, technical coordinators. Wildlife and Vegetation of unmanaged Douglas-fir Forests. USDA Forest Service, Pacific Northwest Research Station, General Technical Report PNW-GTR-285, Portland, Oregon.

Manuwal, D.A., and M.H. Huff. 1987. Spring and winter bird populations in a Douglas-fir forest sere. Journal of Wildlife Management 51:586-595.

Maryland Department of Natural Resources. 2001. Maryland's GreenPrint Program: Summary of Methods to Identify and Evaluate Maryland's Green Infrastructure-Draft. Chesapeake and Coastal Watershed Services, Annapolis, Maryland.

Marzluff, J.M., and K. Ewing. 2001. Restoration of fragmented landscapes for the conservation of birds: a general framework and specific recommendations for urbanizing landscapes. Restoration Ecology 9:280-292.

Maser, C., S.P. Cline, K. Cromack Jr., J.M. Trappe, and E. Hansen. 1988. What We Know About Large Trees That Fall to the Forest Floor. *In* C. Maser, R. Tarrant, J. M. Trappe, and J.F. Franklin, editors. From the mountains to the sea: a story of fallen trees. Pacific Northwest Research Station, U.S. Department of Agriculture Forest Service, Portland.

Maser, C., and M.J. Trappe. 1984. The fallen tree—a source of diversity. Pages 335-339 in New forests for a changing world: Proceedings of the Society of American Foresters National Conference; October 16-20 1983, Portland, Oregon. Society of American Foresters, Bethesda, MD.

McEwen, L.C., C.E. Knitttle, and M.L. Richmond. 1972. Wildlife effects from grasshopper insecticides sprayed on short-grass range. Journal of Range Management 25:188-194.

McIntyre, J.W. 1978. Wintering behavior of common loons. Auk 95:396-403.

McIntyre, J.W. 1983. Nurseries: a consideration of habitat requirement during the early chick-rearing period in common loons. Journal of Field Ornithology 54:247-53.

McKinnon, D.C. 1987. Planning for Wildlife Habitat in Urbanizing Areas of Washington. MS. Washington State University, Pullman, Washington.

McMillan, Russell O., D.A. Armstrong, and P.A. Dinnel. 1995. Comparison of intertidal habitat use and growth rates of two Northern Puget Sound cohorts of 0+ age Dungeness crab, *Cancer magister*. Estuaries 18(2):390-398.

Mech, L.D., D.H. Pletscher and C.J. Martinka 1995. Gray wolf status and trends in the contiguous United States. *In* E.T. LaRoe, G.S. Farris, C.E. Pucket, P.D. Doran and M.J. Mac, eds. Our living resources 1994: A report to the nation on the distribution, abundance and health of U.S. plants, animals, and ecosystems. National Biological Survey, Washington, D.C. 530 pp.

Mellen, T.K. 1987. Home range and habitat use of Pileated Woodpeckers, western Oregon. M.S. Thesis, Oregon State Univ., Corvallis, Oregon.

METRO. 2002. METRO's Technical Report for Goal 5: Revised Draft., Portland, Oregon.

Miller, E., and T. Dring. 1988. Territorial defense of multiple lakes by common loons: a preliminary report. Pages 1-14 *in* P. I. V. Strong (editor). Conf. on Common Loon Res. and Manage., North American Loon Fund, Meredith, New Hampshire.

Milligan-Raedeke, D.A., and K.J. Raedeke. 1995. Wildlife habitat design in urban forest landscapes. Pages 139-149 in G. A. Bradley, editor. Urban Forest Landscapes: Integrating Multidisciplinary Perspectives. The University of Washington Press, Seattle, Washington.

Milner, R., B. Rodrick, G. Hueckel, and others. 1991. Management Recommendations for Priority Species. Washington Department of Fish and Wildlife, Olympia, Washington.

Morrison, M.L., B.G. Marcot, and R.W. Mannan. 1998. Wildlife-Habitat Relationships, 2nd edition. The University of Wisconsin Press, Madison, Wisconsin.

Mudd, D.R. 1975. Touchet River study: Part I. Washington Department of Game, Olympia, Washington. 43 pp.

Murphy, M.L., and K.U. Koski. 1989. Input and depletion of woody debris in Alaska streams and implications for streamside management. North American Journal of Fish Management 9:427-436.

Mussehl, T.W. 1962. Some physical characteristics of ground vegetation used by blue grouse broods. Unpublished Report. Montana Fish and Game, Helena, Montana. 11pp.

Neitro, W.A., R.W. Mannan, D. Taylor, V.W. Binkley, B. C. Marcot, F. F. Wagner, and S. P. Cline. 1985. Snags. Pages 129-169 *in* E.R. Brown, editor. Management of wildlife and fish habitats in forests of western Oregon and Washington. Number 1 - Chapter Narratives. USDA Forest Service, PNW #R6-F&WL-192-1985, Portland, Oregon.

Nightingale, B., and C. Simenstad. 2001. Overwater Structures: Marine Issues. White Paper submitted to Washington Dept. of Fish and Wildlife, Washington Dept. of Ecology, and Washington Dept. of Transportation.

Parker, J. 1980. Great blue herons (*Ardea herodias*) in northwestern Montana: nesting habitat use and the effects of human disturbance. Thesis, University of Montana, Missoula, Montana.

Payne, N.J., B.V. Helson, K.M.S. Sundaram, and R.A. Fleming. 1988. Estimating buffer zone widths for pesticide applications. Pesticide Science 24:147-161.

Perkins, J.M. and C. Levesque 1987. Distribution, status, and habitat affinities of Townsend's big-eared bat (*Plecotus townsendii*) in Oregon. Technical Report #86-5-01. Portland, OR: Oregon Department of Fish and Wildlife, Nongame Wildlife Program. 50 pp.

Pierson, E.D., W.E. Rainey and D.M. Koontz 1991. Bats and mines: experimental mitigation for Townsend's big-eared bat in the McLaughlin Mine in California. Pages 313-342. In Proceedings of Thome Ecological Institute. Issues and technology in management of impacted wildlife, April 8-10, 1991. Thome Ecological Institute, Snowmass, Colorado.

Pinkowski, B.C. 1979. Foraging ecology and habitat utilization in the genus (Sialia). In Dickson et al. The Role of Insectivorous Birds in Forest Ecosystems. New York, Academic Press. pp. 165-190.

Plum Creek, 1996. Multi-species habitat conservation plan on forestlands owned by Plum Creek Timber Company, LP in the I-90 corridor of the Central Cascades Mountain Range, Washington. Plum Creek Timber Company, Seattle, Washington.

Poole, A.F. 1989. Ospreys, A Natural and Unnatural History. Cambridge University Press, New York.

Powell, R.A. and W.J. Zielinski 1994. Fisher. Pages 38-73. *In* L.F. Ruggiero, K.B. Aubry, S.W. Buskirk, L. J. Lyon and W.J. Zielinski, eds. The scientific basis for conserving forest carnivores, American marten, fisher, lynx, and wolverine in the western United States. General Technical Report RM-254. Fort Collins, CO: USDA Forest Service, Rocky Mountain Forest and Range Experimental Station. 184 pp.

Quinn, T., and D.H. Johnson. 2001. Five case studies in wildlife modeling. Pages 537-566 *in* T. Quinn and D. H. Johnson, editors. Wildlife-Habitat Relationships in Oregon and Washington. Oregon State University Press, Corvallis, Oregon.

Quinn, T., and R. Milner. 1999. Great blue heron (*Ardea herodias*). *In* E.M. Larsen and N. Nordstrom, editors. Management Recommendations for Washington's Priority Species, Volume IV: Birds

Raphael, M.G. and M. White. 1984. Use of snags by cavity-nesting birds in the Sierra Nevada. Wildlife Monographs 86:1-66.

Reese, D.A. 1996. Comparative demography and habitat use of western pond turtles in Northern California: The effects of damming and related alterations. Unpublished Ph.D. Dissertation, University of California, Berkeley. 253 pp.

Reese, D.A., and H.H. Welsh. 1997. Use of terrestrial habitat by western pond turtles, *Clemmys marmorata*: implications for management. Pages 352-357 *in* J. Van Abbema, editor. Proceedings: Conservation, Restoration, and Management of Tortoises and Turtles--an International Conference. State University of New York, Purchase, New York.

Reynolds, R.T., R.T. Grahm, M.H. Reiser, R.L. Bassett, P.L. Kennedy, D.A. Boyce, Jr., G. Goodwin, R. Smith, and E.L. Fisher. 1992. Management recommendations for the Northern Goshawk in the Southwestern United States. USDA Forest Service Gen. Tech. Rep. RM-217, Ft. Collins, CO.

Reynolds, R.T. and H.M. Wight. 1978. Distribution, density, and productivity of accipiter hawks breeding in Oregon. Wils. Bull. 90:182-96.

Richter, K.O., and A.L. Azous. 2000b. Amphibian distribution, abundance, and habitat use. Pages 143-165 *in* A.L. Azous and R.R. Horner, editors. Wetlands and Urbanization: Implications for the Future. Lewis Publishers, Boca Raton, Florida.

Richter, K.O., and A.L. Azous. 2000c. Bird distribution, abundance, and habitat use. Pages 167-199 *in* A. L. Azous and R. R. Horner, editors. Wetlands and Urbanization: Implications for the Future. Lewis Publishers, Boca Raton, Florida.

Richter, K.O., and A.L. Azous. 2000d. Terrestrial small mammal distribution, abundance and habitat use. Pages 201-218 *in* A.L. Azous and R.R. Horner, editors. Wetlands and Urbanization: Implications for the Future. Lewis Publishers, Boca Raton, Florida.

Riparian Habitat Technical Committee. 1985. Forest Riparian Habitat Study: Phase 1 Report. 1, Washington State Department of Ecology, Olympia, WA, USA.

Robertson, F. D. 1986. A sponsor's viewpoint. Pages xvii-xviii *in* J. M. Verner, M.L. Ralph, C.J., editor. Wildlife 2000: Modeling Habitat Relationships of terrestrial vertebrates. The University of Wisconsin Press, Madison, WI.

Rodiek, J.E., and E.G. Bolen. 1991. Wildlife and habitats in managed landscapes. Island Press, Washington, D.C.

Rodrick, E. and R. Milner 1991. Management Recommendations for Washington's Priority Habitats and Species. Washington Department of Wildlife, Wildlife Management, Fish Management, and Habitat Management Divisions, Olympia, Washington.

Rogers, J.A. Jr., and H.T. Smith. 1995. Set-back distances to protect nesting bird colonies from human disturbance in Florida. Conservation Biology 9:89-99.

Roloff, G.J., G.F. Wilhere, T. Quinn, and S. Kohlmann. 2001. An overview of models and their role in wildlife management. Pages 512-536 in. Oregon State University Press, Corvallis, Oregon.

San Diego County. 1998. County of San Diego Multiple Species Conservation Program North County Sub Area Plan.

Sanders, T.A. 1999. Habitat availability, dietary mineral supplement, and measuring abundance of bandtailed pigeons in western Oregon. Ph.D. dissertation, Oregon State University, Corvallis, Oregon.

Santillo, D.J., D.M. Leslie, Jr., and P.W. Brown. 1989. Response of small mammals and habitat to glyphosphate application on clearcuts. Journal of Wildlife Management 53:164-172.

Savill, N.J., and P. Hogweg. 1998. Spatially induced speciation prevents extinction: the evolution of dispersal distance in oscillatory predator prey models. Proc. R. Soc. Lond. B 265:25-32.

Schroeder, R.L. 1984. Habitat Suitability Index Models: Black Brant. U.S. Dept. Int., Fish Wildl. Service. FWS/OBS-82/10.63.

Scott, T.A., W. Wehtje, and M. Wehtje. 2001. The need for strategic planning in passive restoration of wildlife populations. Restoration Ecology 9:262-271.

Scott, V.E., et al. 1977. Cavity-nesting birds of North American forests. Forest Service, Agriculture Handbook 511, Washington, D.C. 112 p.

Seaburg, K. 1966. The big blue grouse. Montana Wildlife. July: 23-27.

Shaw, J. 1985. Introduction to wildlife management. McGraw-Hill, New York, New York.

Short, H.L., and R.J. Cooper. 1985. Habitat suitability index models: great blue heron. U.S. Fish and Wildlife Service, Biological Report 82(10.99).

Skagen S.K., Melcher C.P. and Muths E. 2001. The interplay of habitat change, human disturbance and species interactions in a waterbird colony. American Midland Naturalist, 145(1):18-28.

Small, M. 1982. Wildlife management in riparian habitats. Publ. of the Maine Agric. Exp. Stn., Orono.

Smallwood, K.S. 1999. Scale domains of abundance among species of mammalian Carnivora. Environmental conservation 26:102-111.

Smallwood, K.S. 2001. Linking habitat restoration to meaningful units of animal demography. Restoration Ecology 9:253-261.

Smith, G.J. 1987. Pesticide use and toxicology in relation to wildlife: organophosphorous and carbamate compounds. Research Publication Number 170. U.S. Fish and Wildlife Service, Washington, D.C.

Soulé, M.E., and B.A. Wilcox, editors. 1980. Conservation biology: an evolutionary-ecological perspective. Sinauer Associates, Sunderland, Massachusetts.

Spencer, R. 2001. Washington state elk herd plan, north rainier elk herd (draft). Washington Department of Fish and Wildlife, Wildlife Management Program, Olympia, Washington. 41 pp.

Spencer, W.D. 1981. Pine marten habitat preferences at Sagehen Creek, California. MS Thesis. Univ. California, Berkely. C.A.

Spies, T.A. 1991. Plant species diversity and occurrence in young, mature, and old-growth Douglas-fir stands in western Oregon and Washington (USA). Pages 111-121 *in* L.F. Ruggiero, K.B. Aubry, A.B. Carey, and M.H. Huff, editors. Wildlife and vegetation of unmanaged Douglas-fir forests. U.S. Forest Service Gen. Tech. Rep. PNW-GTR-285, Portland, Oregon.

Squires, J.R., and R.T. Reynolds. 1997. Northern Goshawk (ACCIPITER GENTILIS). *In* A. Poole and F. Gill, editors, The Birds of North America, No. 298. Academy of Natural Sciences, Philadelphia, and American Ornithologists' Union, Washington, DC. 32 pp.

Stalmaster, M.V. 1987. The bald eagle. Universe Books, New York, 227 pp.

Starfield, A.M., K.A. Smith, and A.L. Bleloch. 1997. A pragmatic approach to modeling for wildlife management. J. Wildl. Manage. 61:261-270.

Stihler, C.W. and J.S. Hall 1993. Endangered bat populations in West Virginia caves gated or fenced to reduce human disturbance. Bat Research News 34(4):20-24.

Stinson, D.W. 2001. Washington state recovery plan for the lynx. Washington Department of Fish and Wildlife, Wildlife Management Program, Olympia, Washington. 78 pp.

Strong, P.I.V. 1985. Habitat selection by common loons. University of Maine, Orono, Maine. Ph.D. dissertation.

Strong, P.I.V., and J.A. Bissonette. 1985. Management considerations for common loons in Maine. Maine Coop. Wildl. Res. Unit, U.S. Fish and Wildlife Service, Orono, Maine. Unpublished report.

Teague, R.D., editor. 1971. A Manual of Wildlife Conservation. The Wildlife Society, Washington, D.C.

Terrell, C. R., and P. Bytnar-Perfetti. 1989. Water quality indicators guide: surface waters. SCS-TP-161. U.S. Soil Conservation Service, Washington, D.C., USA.

Thomas, G.E. 1993. Estimating annual total heron population counts. Appl. Statistics 42: 473-486.

Thomas, J.W. 1986. Wildlife-habitat modeling--cheers, fears, and introspection. Pages xix-xxv in J. M. Verner, M.L. Ralph, C. J., editor. Wildlife 2000: Modeling Habitat Relationships of terrestrial vertebrates. The University of Wisconsin Press, Madison, WI.

Tilghman, N.G. 1987. "Characteristics of urban woodlots affecting breeding bird diversity and abundance." Landscape and Urban Planning 14: 481-495.

USDA 1986. Guidelines for selecting live or dead standing tree wildlife habitat. USDA For. Serv. PNW. Reg. 6p.

USFWS 1993. Grizzly Bear Recovery Plan, appended. USDI Fish and Wildlife Service, Missoula, Montana. 195 pp.

USFWS. 1985. Sensitive species management plan for the western yellow-billed cuckoo. USDI U.S. Fish and Wildlife Service, Region 1.

USFWS 1987. Northern rocky mountain wolf recovery plan. USDI Fish and Wildlife Service, Denver, Colorado. 119 pp.

USFWS 1997. Grizzly Bear Recovery Plan, supplement containing the North Cascades Recovery Plan. USDI Fish and Wildlife Service, Missoula, Montana. 24 pp.

Vana-Miller, S.L. 1987. Habitat suitability index models: Osprey. USDI Fish and Wildlife Service Biological Report 82(10.154).

Verner, J.M., M.L. Morrison, and C.J. Ralph, editors. 1986. Wildlife 2000: modeling habitat relationships of terrestrial vertebrates. The University of Wisconsin Press, Madison, Wisconsin.

Vizyova, A. 1986. Urban woodlots as islands for vertebrates: a preliminary attempt on estimating the barrier effect of urban structural units. Ecology (CSSR) 5: 407-419.

Vos, K.K., R.A. Ryder, and W.D. Graul. 1985. Response of breeding great blue herons to human disturbance in north central Colorado. Colonial Waterbirds 8:13-22.

Wallen, R. L. 1987. Habitat utilization by harlequin ducks in Grand Teton National Park. Thesis, Montana State University, Bozeman, Montana.

Ware, D.A., M. Tirhi, and B. Herbig. 1999. Mountain quail (*Oreortyx pictus*). *In* E. M. Larsen and N. Nordstrom, editors. Management Recommendations for Washington's Priority Species, Volume IV: Birds.

Washington State Department of Revenue. 1993. Open Space Taxation Act: Current Use Assessment Information. Washington State Department of Revenue, Olympia, Washington.

Watershed Management Committee. 1998. Lower Cedar River Basin and Nonpoint Pollution Action Plan. Metropolitan King, Seattle, Washington.

Watson, J.W. and E.A. Rodrick. 2002. Bald eagle (*Haliaeetus leucocephalus*). *In* E.M. Larsen and N. Nordstrom, editors. Management Recommendations for Washington's Priority Species, Volume IV: Birds

WDFW (Washington Department of Fish and Wildlife). 1995. Priority Habitat Management Recommendations: Snags-Draft. Washington Department of Fish and Wildlife, Olympia, Washington.

WDFW. 1999a. Game status and trend report. Washington Department of Fish and Wildlife, Wildlife Management Program, Olympia, Washington. 195 pp.

WDFW. 1999b. Priority Habitats and Species. Washington Department of Fish and Wildlife, Olympia, Washington.

WDW. 1989. Merlin, *Falco columbarius*. Washington Department of Fish and Wildlife, Olympia, Washington.

WDW. 1991. Endangered & Threatened 1991 Status Report. Washington Department of Wildlife, Olympia, Washington. 14 pp.

Welsh, H. H.J., and A.L. Lind. 1988. Old growth forest and the distribution of the terrestrial herpetofauna. Pages 439-458 *in* R.C. Szaro, K.E. Severson, and D.R. Patton, editors. Management of amphibians, reptiles, and small mammals in North America. USDA Forest Service, Gen. Tech. Rep. RM-166, Fort Collins, Colorado.

Westall, M.A. 1986. Osprey in R.L. Di Silvestro, ed., Audubon Wildlife Report 1986. National Audubon Soc., New York.

Widen, P. 1989. The hunting habitat of goshawks *Accipiter gentiliis* in boreal forests of central Sweden. Ibis. 131(2):205-31.

Woodbridge, B. and P.J. Detrich. 1994. Territory occupancy and habitat patch size of northern goshawks in the southern Cascades of California. Studies in Avian Biology 16:83-87.

Wright, J.B. 1998. The role of conservation easement sites in biogeographic and biological research in the U.S.A. Environmental conservation 25:85-89.

Zarn, M. 1974. Osprey (*Pandion haliaetus carolinensis*). USDI BLM Habitat Management Series for Unique or Endangered Species Rept. # 12.

Zwickel, F.C., and J.F. Bendell. 1985. Blue grouse-effects on and influences of a changing forest. The Forestry Chronicle 61:185-188.

#### WETLANDS

Adamus, P.R. 1995. Validating a habitat evaluation method for predicting avian richness. Wildlife Society Bulletin 23:743-749.

Adamus, P.R. 2001. Methods for evaluating wetland condition: Biological assessment methods for birds. Pages 1-16 in. U.S. Environmental Protection Agency, Office of Water, Washington, DC. EPA 822-R-01-0071.

Adamus, P.R., T.J. Danielson, and A. Gonyaw. 2001. Indicators For Monitoring Biological Integrity of Inland Freshwater Wetlands: A survey of North America Technical Literature (1990-2000). EPA843-R-01, US Environmental Protection, Washington, DC.

Addiscott, T.M. 1997. A critical review of the value of buffer zone environments as a pollution control tool. Pages 236-243 in N. Haycock, T. Burt, K. Goulding, and G. Pinay, editors. Buffer Zones: Their Processes and Potential in Water Protection. The Proceedings of the International Conference on Buffer Zones. Quest Environmental, Harpenden, Hertfordshire, UK, Oxford, UK.

Askins, R.A. 2000. Restoring North America's Birds: Lessons from Landscape Ecology. Yale University Press, New Haven, CN.

Azous, A.L., and S.S. Cooke. 2000. Wetland plant communities in relation to watershed development. Pages 255-263 *in* A.L. Azous and R.R. Horner, editors. Wetlands and Urbanization: Implications for the Future. Lewis Publishers, Boca Raton, FL.

Azous, A.L., L.E. Reinelt, and J. Burkey. 1997b. Managing wetland hydroperiod: Issues and Concerns. Chapter 13. Pages 187-197 *in* A. L. A. a. R. Horner, editor. Wetlands and Urbanization: Implications for the Future. Washington State Department of Ecology, Olympia, Washington. King County Water and Land Resources Division and the University of Washington, Seattle, Washington., Olympia and Seattle, Washington.

Azous, A.L., and K.O. Richter. 1995. Amphibian and plant community responses to changing hydrology in urban wetlands. Pages 156-162 *in* E. Robichaud, editor. Puget Sound Research 1995 Proceedings. Puget Sound Water Quality Authority, Olympia, Washington.

Balda, R.P. 1975. Vegetation structure and breeding bird diversity. Pages 59-80 in D. R. Smith, editor. Management of forest and range habitats for nongame birds: proceedings of the symposium. USDA Forest Service Gen. Tech. Rep. WO-1, Washington, DC.

Bayley, P.B. 1995. Understanding large river-floodplain ecosystems. BioScience, 45(3):153-158.

Beier, P., and R.F. Noss. 1998. Do habitat corridors provide connectivity? Conservation Biology 12:1241-1252.

Bennett, A.F. 1991. Roads, roadsides and wildlife conservation: a review. Pages 99-118 in D. A. Saunders and R. J. Hobbs, editors. Nature Conservation 2:the role of corridors. Beatty & Sons, Chipping Norton, New South Wales, Australia.

Berge, H.B. 2002. 2001 Annual Monitoring Report. King County Agricultural Drainage Assistance Program. King County Department of Natural Resources. Seattle, Washington. 43 p.

Blaustein, A.R., J.J. Beatty, D.H. Olson, and R.M. Storm. 1995. The Biology of Amphibians and Reptiles in Old-Growth Forests in the Pacific Northwest. PNW-GTR-337, US Forest Service, Pacific Northwest Research Station, Corvallis, Oregon.

Brinson, M.M. 1993. A Hydrogeomorphic Classification for Wetlands. Final Technical Report WRP-DE-4, U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, Mississippi.

Brooks, R.P., and M.J. Croonquist. 1990. Wetland, habitat, and trophic response guilds for wildlife species in Pennsylvania. Journal of the Pennsylvania Academy of Science 64:93-102.

Brown, C.J., and B. Blossey. 2002. Plant invasions and amphibian declines: are they linked? in Society for Conservation Biology 16th Annual Meeting, editor. (co hosted by DICE and the British Ecological Society), Canterbury, UK.

Brown, E.R., editor. 1985a. Management of wildlife and fish habitats in forests of western Oregon and Washington. Part 1-Chapter narratives. USDA Forest Service, USFS Pub. No. R6-F&WL-192-1985, Portland, Oregon.

Brown, E.R., editor. 1985b. Management of wildlife and fish habitats in forests of western Oregon and Washington. Part 2-Appendices. USDA Forest Service, USFS Pub. No. R6-F&WL-192-1985, Portland, Oregon.

Brown, M., and J.J. Dinsmore. 1986. Implications of marsh size and isolation for marsh bird management. J. Wildl. Manage. 50:392-397.

Brown, M.T., J.M. Schaefer, and K.H. Brandt. 1990. Buffer zones for water, wetlands and wildlife in East Central Florida. Prepared for the East Central Florida Regional Planning Council, Winter Park, Florida. Center for Wetlands, University of Florida, Gainesville, Florida.

Burke, V.J., and G.J. Whitfield. 1995. Terrestrial buffer zones and wetland conservation: A case study of freshwater turtles in Carolina bay. Conservation Biology 9:1365-1369.

Carr, L.W., and F.L.L. 2001. Effect of road traffic on two amphibian species of differing vagility. Conservation Biology 15:1071-1078.

Castelle, A.J., C. Conolly, M. Emers, E. D. Metz, S. Meyer, M. Witter, S. Mauermann, T. Erickson, and S.S. Cooke. 1992a. Wetland Buffers: Use and Effectiveness. Publication #92-10, Adolfson Associates, Inc., Shorelands and Coastal Zone Management Program, Olympia, WA, USA.

Castelle, A.J., A.W. Johnson, and C. Conolly. 1994. Wetland and stream buffer size requirements: a review. Journal of Environmental Quality 23:878-882.

Clawson, R.G., B.G. Lockable, R.H. Jones, J.A. Stanturf, and M. Messina. 1997. Amphibian responses to helicopter harvesting in forested floodplains of low order, backwater streams. Forest Ecology and Management 90:225-235.

Correll, D.L. 1997. Buffer zones and water quality protection: general principles. Pages 7-20 *in* N. Haycock, T. Burt, K. Goulding, and G. Pinay, editors. Buffer Zones: Their Processes and Potential in Water Protection. The Proceedings of the International Conference on Buffer Zones, September 1996. Quest Environmental, Harpenden, Hertfordshire, UK, Oxford, UK.

Cowardin, L.M., V. Carter, F.C. Goulet, and E.T. LaRoe. 1979. Classification of wetlands and deepwater habitat of the United States. FWS/OBS-79/31, U. S. Fish and Wildlife Service, Washington D.C.

Croonquist, M.J. 1990. Avain and mammalian community comparisons between protected and altered watersheds- a landscape approach. MS. Pennsylvania State University, University Park, Pennsylvania.

Croonquist, M.J., and R. Brooks. 1993. Effects of habitat disturbance on bird communities in riparian corridors. Journal of Soil and Water Conservation 48:65-70.

Cummins, K.W., M.A. Wilzbach, D.M. Gates, J.B. Perry, and W.B. Taliaferro. 1989. Shredders and riparian vegetation. BioScience 39:24-30.

Dawson, D. 1994a. Are habitat corridors conduits for animals and plants in a fragmented landscape: a review of the scientific evidence. Number 94, English Nature Research Reports, Peterborough, England.

deMaynadier, P.G., and M.L. Hunter, Jr. 1999. Forest canopy closure and juvenile emigration by pool-breeding amphibians in Maine. Journal of Wildlife Management 63:441-450.

Dennison, M.S., and J.F. Berry. 1993. Wetlands: Guide to science, law, and technology. Noyes Publications, Park Ridge, New Jersey.

Dickson, B.C., and D.J. Schaeffer. 1997. Ecorestoration of riparian forests for non-point source pollution control: Policy and ecological considerations in agroecosystem watersheds. Pages 221-227 in N. Haycock, T. Burt, K. Goulding, and G. Pinay, editors. Buffer Zones: Their Processes and Potential in Water Protection. The Proceedings of the International Conference on Buffer Zones. Quest Environmental, Harpenden, Hertfordshire, UK, Oxford, UK.

Dillaha, T.A., III, and S.P. Inamdar. 1997. Buffer zones as sediment traps or sources. Pages 33-42 *in* N. Haycock, T. Burt, K. Goulding, and G. Pinay, editors. Buffer Zones: Their Processes and Potential in Water Protection. The Proceedings of the International Conference on Buffer Zones. Quest Environmental, Harpenden, Hertfordshire, UK, Oxford, UK.

Dodd, C.K.J. 1996. Use of terrestrial habitats by amphibians in the sandhill uplands of north-central Florida. Alytes 14:42-52.

Dodd, C.K.J., and B.S. Cade. 1998. Movement patterns and the conservation of amphibians breeding in small, temporary wetlands. Conservation Biology 12:331-339.

Dolloff, C.A. 1986. Effects of stream cleaning on juvenile coho salmon and Dolly Varden in southeast Alaska streams. Trans. Am. Fish. Soc. 115:743-755.

Dumas, P.C. 1966. Studies of the Rana species complex in the Pacific Northwest. Copeia 1966:60-73.

Dunne, T., and L.B. Leopold. 1978. Water in Environmental Planning. W. H. Freeman and Company, San Francisco, CA,USA.

Efford, I.E., and J.A. Mathias. 1969. A comparison of two salamander populations in Marion Lake, British Columbia. Copeia 1969:723-736.

Euliss, N.H., Jr, and D.M. Mushet. 1996. Water-level fluctuation in wetlands as a function of landscape condition in the prairie pothole region. Wetlands 16:587-593.

Ewing, K. 1996. Tolerance of four wetland plant species to flooding and sediment deposition. Environmental and Experimental Botany 36:131-146.

Fahrig, L. 1997. Relative effects of habitat loss and fragmentation on population extinction. Journal of Wildlife Management 61:603-610.

Fahrig, L., J.H. Pedlar, S.E. Pope, P.D. Taylor, and J.F. Wegner. 1995. Effect of road traffic on amphibian density. Biological Conservation 73:177-182.

Findlay, C.S., and J. Houlahan. 1997. Anthropogenic correlates of species richness in Southeastern Ontario wetlands. Conservation Biology 11:1000-1009.

Föppen, R.P.B., J.P. Chadron, and W. LieFveld. 2000. Understanding the role of sink patches in source-sink metapopulations: reed warbler in an agricultural landscape. Conservation Biology 14:1881-1891.

Föppen, R.P.B., and R. Reijnen. 1994. The effects of car traffic on breeding bird populations in woodland. II. Breeding dispersal of male yellow warblers (*Phylloscopus trochilus*) in relation to the proximity of a highway. Journal of Applied Ecology 31:95-101.

Forest Ecosystem Management Assessment Team. 1993. Forest Ecosystem Management: An Ecological, Economic, and Social Assessment. United States Department of Agriculture, Forest Service United States Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, United States Department of the Interior, Bureau of Land Management, United States Department of the Interior, Fish and Wildlife Service, United States Department of the Interior, National Park Service, Environmental Protection Agency.

Forman, R.T.T. 1995. Land mosaics: the ecology of landscapes and regions. Cambridge University Press,, Cambridge, England.

Forman, R.T.T., and M. Godron. 1986. Landscape Ecology. John Wiley & Sons, International.

Franklin, J.F., and R.T.T. Forman. 1987. Creating landscape patterns by forest cutting: Ecological consequences and principles. Landscape Ecology 1:5-18.

Galatowitsch, S.M., N.O. Anderson, and P.D. Ascher. 1999. Invasiveness in wetland plants in temperate North America. Wetlands 19:733-755.

Gibbs, J.P. 1993. Importance of small wetlands for the persistence of local populations of wetland-associated animals. Wetlands 13:25-31.

Gibbs, J.P. 1998a. Amphibian movements in response to forest edges, roads, and streambeds in southern New England. Journal of Wildlife Management 62:584-589.

Gibbs, J.P. 1998b. Distribution of woodland amphibians along a forest fragmentation gradient. Landscape Ecology 13:263-268.

Gibbs, J.P. 2000. Wetland loss and biodiversity conservation. Conservation Biology 14:314-317.

Gregory, S.V., F.J. Swanson, W.A. McKee, and K.W. Cummins. 1991. An ecosystem perspective of riparian zones: Focus on links between land and water. Bioscience 41:540-551.

Gustafson, E.J., and G.R. Parker. 1994. Using an index of habitat patch proximity for landscape design. Landscape and Urban Planning 29:117-130.

Hammer, D. A., editor. 1989. Constructed Wetlands for Wastewater Treatment: Municipal, Industrial and Agricultural. Lewis Publishers, Inc., Chelsea, Michigan.

Harris, L.D. 1984. Travel corridors and connectivity of islands. Pages 141-144 in The Fragmented Forest: Island Biogeography Theory and the Preservation of Biotic Diversity. University of Chicago Press, Chicago, Illinois.

Harris, L.D., and J. Eisenberg. 1989. Enhanced linkages: Necessary steps for success in conservation of faunal diversity. Pages 166-181 *in* M.C. Pearl and D. Western, editors. Conservation for the 21st century. Oxford University Press, New York, New York.

Harris, L.D., and P.B. Gallagher. 1989. New initiatives for wildlife conservation: the need for movement corridors. Pages 11-34 *in* G. Mackintosh, editor. In defense of wildlife: Preserving communities and corridors. Defenders of Wildlife, Washington DC.

Harris, R.A. 1986. Vegetative barriers: An alternative highway noise abatement measure. Noise Control Engineering Journal 27:4-8.

Hayes, M.P., C.A. Pearl, and C.J. Rombough. 2001. *Rana aurora aurora* (Northern Red-legged frog) movement. Herpetological Review 32:35-38.

Hicks, A.L. 1995. Impervious surface area and benthic macroinvertebrate response as an index of impact from urbanization on freshwater wetlands. M.S. University of Massachusetts, Amherst, Massachusetts.

Houck, C.A. 1996. The distribution and abundance of invasive plant species in freshwater wetlands of the Puget Sound Lowlands, King County, Washington. M,S. University of Washington, Seattle, Washington.

Hruby, T., T. Granger, K. Brunner, S. Cooke, K. Dublonica, R. Gersib, L. Reinelt, K. Richter, D. Sheldon, E. Teachout, A. Wald, and F. Weinmann. 1999. Methods for Assessing Wetland Functionss Volume 1: Riverine and Depressional Wetlands in the Lowlands of Western Washington. No. 99-115, Washington State Department of Ecology, Olympia, Washington.

Janzen, D.H. 1983. No park is an island: Increase in interference from outside as park size decreases. Oikos 41:402-410.

Janzen, D.H. 1996. No park is an island: Increase in interference from outside as park size decreases. Pages 192-202 *in* F.B. Samson and F.L. Knopf, editors. Ecosystem Management: Selected Readings. Springer-Verlag, New York.

Johnson, A.W., and D.M. Ryba. 1992. A Literature Review of Recommended Buffer Widths to Maintain Various Functions of Stream Riparian Areas. King County Surface Water Management Division, Seattle, Washington.

Keddy, P.A. 2000. Wetland Ecology Principles and Conservation. Cambridge University Press, Cambridge, UK.

Keller, C.M. E., C.S. Robbins, and J.S. Hatfield. 1993. Avian communities in riparian forests of different widths in Maryland and Delaware. Wetlands 13:137-144.

King County. 1990. Sensitive Areas Ordinance, Title 21. King County, Seattle, Washington.

King County. 1991. King County Wetlands Inventory. King County Environmental Division, Parks, Planning and Resources Department, Seattle, WA, USA.

King County Surface Water Management Division. 1994. Final East Lake Sammamish Basin and Nonpoint Action Plan. King County, Surface Water Management, Seattle, Washington.

King County Surface Water Management Division, Snohomish County Surface Water Management, and City of Redmond Stormwater Division. 1990. Bear Creek Basin Plan. King County Surface Water Management Division, Seattle, Washington.

King County Surface Water Management Division, Washington State Department of Ecology, and City of Issaquah. 1996. Final Issaquah Creek Basin and Nonpoint Action Plan. King County Department of Natural Resources, Seattle, Washington.

Knutson, K.L., and V.L. Neaf. 1997. Management recommendations for Washington's priority habitats: Riparian. Washington Department of Fish and Wildlife, Olympia, Washington.

Kulzer, L., S. Luchessa, A.S. Cooke, R. Errington, and F. Weinmann. 2001. Characteristics of low-elevation Spagnum-dominated peatlands of western Washington: a community profile. USEPA, Region 10, Seattle, Washington, USA.

Laudenslayer, W.F. 1986. Summary: predicting effects of habitat patchiness and fragmentation - the manager's viewpoint. Pages 331-333 *in* J. Verner, M.L. Morrison, and C.J. Ralph, editors. Wildlife 2000: Modeling habitat relationships of terrestrial vertebrates. University of Wisconsin Press, Madison, Wisconsin.

Lehmkuhl, J.F., L.F. Ruggiero, and P.A. Hall. 1991. Landscape-scale patterns of forest fragmentation and wildlife richness and abundance in the southern Washington Cascade Range. Pages 425-442 *in* L.F. Ruggiero, K.B. Aubry, A.B. Carey, and M.H. Huff, editors. Wildlife and vegetation of unmanaged Douglas-fir forests. U.S. Forest Service Gen. Tech. Rep. PNW-GTR-285, Portland, Oregon.

Lovejoy, T. E., R. O. J. Biorregaard, A. B. Ryklands, J. R. Malcolm, C. E. Quintela, L. H. Harper, K. S. J. Brown, A. H. Powell, G. V. N. Powell, H. O. R. Schubart, and M. B. Hays. 1986. Edge and other effects of isolation on Amazon forest fragments. Pages 257-285 in M. E. Soulé, editor. Conservation Biology: The science of scarcity and diversity. Sinauer Associates, Sunderland, Massachusetts.

Low, J. B. 1945. Ecology and management of the redhead (*Nyroca americana*) in Iowa. Ecol. Monogr. 15:35-69.

Maitland, P.S., and N.C. Morgan. 1997. Conservation Management of Freshwater Habitats: Lakes, Rivers and Wetlands. Chapman & Hall, New York, New York.

Maryland Department of Natural Resources. 2001. Maryland's GreenPrint Program: Summary of Methods to Identify and Evaluate Maryland's Green Infrastructure-Draft. Chesapeake and Coastal Watershed Services, Annapolis, Maryland.

Marzluff, J.M., R. Bowman, and R. Donnelly, editors. 2001. Avian Ecology and Conservation in an Urbanizing World. Kluwer Academic Publishers, Norwell, Massachusetts.

Marzluff, J.M., and R. Sallabanks, editors. 1998. Avian Conservation: Research and Management. Island Press, Washington, D.C.

McCafferty, W.P., and A.V. Provonsha. 1981. Aquatic Entomology. Jones and Bartlett Publishers, Boston, Massachusetts.

McMillan, A. 2000. The science of wetland buffers and its implications for the management of wetlands. MS. Evergreen State College, Olympia, Washington.

Merritt, R.W., and K.W. Cummins. 1996. Introduction (to the aquatic insects of North America). Pages 1-4 *in* R.W. Merritt and K.W. Cummins, editors. An Introduction to the Aquatic Insects of North America. Kendall/Hunt Publishing Company, Dubuque, Iowa.

METRO. 2002. METRO's Technical Report for Goal 5: Revised Draft., Portland, Oregon.

Middleton, B. 1999. Wetland restoration, flood pulsing, and disturbance dynamics. John Wiley & Sons, Inc., New York.

Mitch, W.J., and J.G. Gosselink. 1993. Wetlands; Second Edition, Second Edition edition. Van Nostrand Reinhold, New York, New York.

Mitchell, J.C., S.C. Reinehart, J.F. Pagels, K.A. Buhlmann, and C.A. Pague. 1997. Factors influencing amphibian and small mammal assemblages in central Appalachian forests. Forest Ecology and Management 96:65-16.

Mitsch, W.J., and J.G. Gosselink. 1993. Wetlands, 2nd edition. Van Nostrand Reinhold, New York, New York.

Murkin, H.R. 1991. Effects of prolonged flooding on nektonic invertebrates in small diked marshes. Can. J. Fish. Aquat. Sci. 48:2355-2364.

Murkin, H.R., R.M. Kaminski, and R.D. Titman. 1982. Responses by dabbling ducks and aquatic invertebrates to an experimentally manipulated cattail marsh. Can. J. Zool. 60:2324-2332.

Murkin, H.R., R.M. Kaminski, and R.D. Titman. 1992. Nektonic invertebrate abundance and distribution at the emergent vegetation - open water interface in The Delta Marsh, Manitoba Canada. Wetlands 12:45-52.

Murkin, H.R., and D.A. Wrubleski. 1988. Aquatic invertebrates of freshwater wetlands: function and ecology. Pages 239-249 in D. D. Hook, W. H. M. Jr., H. K. Smith, J. Gregory, V. B. Jr., M. R. DeVoe, R. E. Sojka, S. Gilbert, R. Bani, L. H. Stolzy, C. Brooks, T. D. Matthews, and T. H. She, editors. The Eclogy and Management of Wetlands. Volume 1:Ecology of Wetlands. Timber Press, Portland, OR USA.

National Research Council (NRC). 2001. Committee on Mitigating Wetland Losses Board on Environmental Studies and Toxicology Water Science and Technology Board Division on Earth and Life Studies. Compensating for wetland losses under the Clean Water Act (2001). National Academy Press.

National Research Council (NRC). 2002. Riparian Areas: Functions and Strategies for Management. National Academy Press, Washington, D.C.

National Research Council. 1992. Committee on Restoration of Aquatic Ecosystems: Science Technology and Public Policy. Restoration of aquatic ecosystems. National Academy Press, Washington D.C.

Nordstrom, N., and R. Milner. 1997. Western Pond Turtle: *Clemmys marmorata*. Pages 7-1 to 7-7 *in* E.M.T. Larson, editor. Management Recommendations for Washington's Priority Species, Volume III: Amphibians and Reptiles. Wash. Department Fish and Wildl., Olympia, WA, USA.

Nussbaum, R.A., D.B. Edmond, Jr., and R.M. Storm. 1983. Amphibians & Reptiles of the Pacific Northwest. University of Idaho Press, Moscow, Idaho, USA.

Oakley, A.L., J.A. Collins, E. L. B, H. D. A, H. J. C, and V. R. E. 1985. Riparian zones and freshwater wetlands. Pages 57-80 in E. R. Brown, editor. Management of Wildlife and Fish Habitats in Forests of Western Oregon and Washington. USDA Forest Service.

Paton, P.W.C., and W.B.I. Crouch. 2002. Using the phenology of pond-breeding amphibians to develop conservation strategies. Conserv. Biol. 16:194-204.

Perison, D., J. Phelps, C. Pavel, R. Kellison, J. A. Stanturf, and M. G. Messina. 1997. The effects of timber harvest in a South Carolina blackwater bottomland. Forest Ecology and Management 90:171-185.

Peterson, N.P. 1982. Immigration of juvenile coho salmon (*Oncorhynchus kisutch*) into riverine ponds. Can. J. Fish. Aquat. Sci. 39:1303-1307.

Phelps, J. P., and R. A. Lancia. 1993. Effect of timber harvest on the herptofauna community of a bottomland hardwood ecosystem: preliminary results. Pages 151-154 in Seventh Biennial Southern Silvicultural Research Conference. USDA General Tech Report S0-93, Mobile, Alabama.

Pollock, M. M., and P. Kennard. 1998. A low-risk strategy for preserving riparian buffers needed to protect and restore salmonid habitat in forested watersheds of the Pacific Northwest. 10,000 Years Institute, Seattle, Washington.

Pough, F.H., E.M. Smith, D.H. Rhodes, and A. Collazo. 1987. The Abundance of Salamanders in Forest Stands with Different Histories of Disturbance. Forest Ecology and Management 20:1-9.

Raedeke, K.J. 1988. Forest Management and Wildlife in the Pacific Northwest. Northwest Environmental Journal 4:263-278.

Raedeke, K.J. 1988b. Introduction. in K. J. Raedeke, editor. Streamside Management: Riparian Wildlife and Forestry Interactions. University of Washington, Institute of Forest Resources, Contribution No. 59, Seattle, Washington.

Raedeke, K.J., and J.F. Lehmkuhl. 1986. A simulation procedure for modeling the relationships between wildlife and forest management. Pages 377-381 *in* J. Verner, M.L. Morrison, and C.J. Ralph, editors. Wildlife 2000: Modeling Habitat Relationships of Terrestrial Vertebrates. University of Wisconsin Press, Madison, Wisconsin.

Raymond, L.R., and L.M. Hardy. 1991. Effects of a clearcut on a population of the mole salamander, *Abystoma talpoideum*, in and adjacent unaltered forest. J. of Herp. 25:509-512.

Reese, K.P., and J.T. Ratti. 1988. Edge Effect: A Concept Under Scrutiny. Pages 127-136 in Special Session 2. Emerging Concepts in Wildlife and Wildland Management.

Reeves, G.H., J.D. Hall, T.D. Roelofs, T.L. Hickman, and C.O. Baker. 1991. Rehabilitating and modifying stream habitats. American Fisheries Society Special Publication 19:519-557.

Reijnen, R., and R. Föppen. 1994. The effects of car traffic on breeding bird populations in woodland. I. Evidence of reduced habitat quality for willow warblers (*Phylloscopus trochillus*) breeding close to a highway. Journal of Applied Ecology 31:85-94.

Reijnen, R., R. Föppen, C. T. Braak, and J. Thissen. 1995. The effects of car traffic on breeding bird populations in woodland. III. Reduction of density in relation to The proximity of main roads. Journal of Applied Ecology 32:187-202.

Reinelt, L.E., and R.R. Horner. 1993. Pollutant removal from stormwater runoff by palustrine wetlands based on comprehensive budgets. Ecological Engineering 4:77-97.

Reinelt, L.E., R.R. Horner, and A. Azous. 1998. Impacts of urbanization on palustrine (depressional freshwater) wetlands-research and management in the Puget Sound region. Urban Ecosystems 2:219-236.

Richter, K. O. 1997b. Criteria for the restoration and creation of wetland habitats of lentic-breeding amphibians of the Pacific Northwest. Pages 72-94 in K. B. Macdonald and F. Weinmann, editors. Wetland and Riparian Restoration: Taking a Broader View. USEPA, Region 10, Seattle, Washington.

Richter, K.O. in prep. Wetlands. In B.P. Leonard and L.C. Jones, editors. Amphibians of the Northwest.

Richter, K.O., and A.L. Azous. 2000b. Amphibian distribution, abundance, and habitat use. Pages 143-165 *in* A.L. Azous and R.R. Horner, editors. Wetlands and Urbanization: Implications for the Future. Lewis Publishers, Boca Raton, Florida.

Richter, K.O., and A.L. Azous. 2000c. Bird distribution, abundance, and habitat use. Pages 167-199 *in* A. L. Azous and R. R. Horner, editors. Wetlands and Urbanization: Implications for the Future. Lewis Publishers, Boca Raton, Florida.

Richter, K.O., and A.L. Azous. 2000d. Terrestrial small mammal distribution, abundance and habitat use. Pages 201-218 *in* A. L. Azous and R. R. Horner, editors. Wetlands and Urbanization: Implications for the Future. Lewis Publishers, Boca Raton, Florida.

Richter, K.O., and A.L. Azous. 2000e. Terrestrial small mammal distribution, abundance, and habitat use. Pages 201-218 *in* A.L. Azous and R.R. Horner, editors. Wetlands and Urbanization: Implications for the Future. Lewis Publishers, Boca Raton, Florida.

Rosenberg, D.M., and H.V. Danks. 1987. Aquatic Insects of Peatlands and Marshes in Canada. Memoirs of the Entomological Society of Canada No. 140:174.

Rosenberg, D.M., and V.H. Resh. 1996. Use of Aquatic Insects in Biomonitoring. Pages 87-97 *in* R. W. Merritt and K. W. Cummins, editors. An Introduction to the Aquatic Insects of North America. Kendall/Hunt Publishing Company, Dubuque, Iowa.

Rothermel, B.B., and R.D. Semlitsch. 2002. Experimental Investigation of landscape resistance of forest versus old-field habitats to emigrating juvenile amphibians. Conservation Biology 16:1324-1332.

Rudolph, D.C., and J.G. Dickson. 1990. Streamside zone width and amphibian and reptile abundance. The Southwestern Naturalist 35:472-476.

San Diego County. 1998. County of San Diego Multiple Species Conservation Program North County Sub Area Plan.

Semlitsch, R.D. 2000. Size does matter: The value of small isolated wetlands. National Wetlands Newsletter: 5-13, non inclusive.

Semlitsch, R.D. 2002. Critical elements for biologically based recovery plans of aquatic-breeding amphibians. Conserv. Biol. 16:619-629.

Semlitsch, R.D., and J.R. Bodie. 1998. Are small, isolated wetlands expendable? Conservation Biology 12:1129-1133.

Shoop, C.R. 1968. Migratory orientation of *Ambystoma maculatum*: Movements near breeding ponds and displacements of migrating individuals. Biological Bulletin 135:230-238.

Short, H.L., and R.J. Cooper. 1985. Habitat Suitability Index Models: Great Blue Heron. 82(10.99), U.S. Department of Interior, Fish and Wildlife Service, Washington, D.C.

Simberloff, D. 1993. How Forest Fragmentation Hurts Species and What To Do About It. Pages 85--90 in Sustainable Ecological Systems: Implementing an Ecological Approach to Land Management. United States Department of Agriculture, Flagstaff, Arizona.

Skelly, D.K., E.E. Werner, and S.A. Cortwright. 1999. Long-term distributional dynamics of a Michigan amphibian assemblage. Ecology 80:2326-2337.

Snodgrass, J.W., M. Komoroski, L. Byran, Jr., and J. Burger. 2000a. Relationships among isolated wetland size, hydroperiod, and amphibian species richness: implications for wetland regulations. Conservation Biology 14:414-419.

Sommer, T.R., M.L. Nobriga, W.C. Harrell, W. Batham, and W.J. Kimmerer. 2000. Floodplain rearing of juvenile chinook salmon: evidence of enhanced growth and survival. Can. J. Fish. Aquat. Sci. 58:325-333.

Spackman, S.C., and J.W. Hughes. 1995. Assessment of minimum stream corridor width for biological conservation: Species richness and distribution along mid-order streams in Vermont, USA. Biological Conservation 71:325-332.

Sparling, D.W., G.M. Fellers, and L.L. McConnell. 2001a. Pesticides and amphibian population declines in California, USA. Environmental Toxicology and Chemistry 20:1591-1595.

Sparling, D.W., K.O. Richter, A. Calhoun, and M. Micacchion. 2001b. Methods for evaluating wetland condition: Using amphibians in bioassessments of wetlands. EPA 822-R-01-0071, U.S. Environmental Protection Agency, Office of Water, Washington, D.C.

St. John, A.D. 2002. Reptiles of the Northwest: Alaska to California: Rockies to the Coast. Lone Pine Publishing, Renton, Washington.

Stenhouse, S. L. 1985. Migratory orientation and homing in *Ambystoma maculatum* and *Ambystoma opacum*. Copeia (3):631-637.

Storm, R. M., and W. P. Leonard. 1995. Reptiles of Washington and Oregon. Seattle Audubon Society, Seattle, Washington.

Taylor, B.L. 1993. The influence of wetland and watershed morphological characteristics on wetland hydrology and relationships to wetland vegetation communities. M.S. University of Washington, Seattle, Washington.

Taylor, B.L., K.A. Ludwa, and R.R. Horner. 1995. Urbanization effects on wetland hydrology and water quality. Pages 146-154 *in* E. Robichaud, editor. Puget Sound Research '95 Proceedings. Puget Sound Water Quality Authority, Olympia, Washington.

Temple, S.A., and J.R. Carey. 1988. Modeling dynamics of habitat-interior bird populations in fragmented landscapes. Conservation Biology 2:340-347.

Thom, R.M., A.B. Borde, K.O. Richter, and L.F. Hibler. 2001. Influence of Urbanization on Ecological Processes in Wetlands. Pages 5-16 *in* M.S. Wigmosta and S.J. Burges, editors. Land Use and Watersheds: Human Influence on Hydrology and Geomorphology in Urban and Forest Areas. American Geophysical Union, Washington, D.C.

Thomas, J.W., R.G. Anderson, C. Maser, and E.L. Bull. 1979. Snags. Pages 60-77 *in* J. W. Thomas, tech., editor. Wildlife Habitats in Managed Forests the Blue Mountains of Oregon and Washington. U.S.Department of Agriculture, Forest Service, Pacific Northwest Forest and Range Experiment Station, Portland, Oregon.

Voigts, D.K. 1976. Aquatic invertebrate abundance in relation to changing marsh vegetation. American Midland Naturalist 95:313-322.

Waldick, R.C., B. Freedman, and R.J. Wassersug. 1999. The consequences for amphibians of the conversion of a natural, mixed-species forests to conifer plantations in southern New Brunswick. Canadian-Field-Naturalist 113:408-418.

Washington Department of Wildlife. 1993. Status of the Western Pond Turtle (*Clemmys marmorata*). Wash. Department Wildl., Olympia, WA, USA.

Weller, M.W. 1979. Birds of some Iowa wetlands in relation to concepts of faunal preservation. Proc. Iowa Acad. Sci. 86:81-88.

Weller, M.W. 1988. The influence of hydrologic maxima and minima on wildlife habitat and production values of wetlands. Pages 339 *in* J.A. Kusler and G. Brooks, editors. Proceedings of the National Wetland Symposium: Wetland Hydrology. Association of State Wetland Managers, Inc., Berne, New York.

Weller, M.W. 1994. Freshwater Marshes: Ecology and Wildlife Management, 3rd ed., edition. University of Minnesota Press, Minneapolis, MN, USA.

Weller, M.W., and L.H. Fredrickson. 1974. Avian ecology of a managed glacial marsh. The Living Bird 12:269-291.

Werschkul, D.F., E. McMahon, and M. Leitschuh. 1976. Some effects of human activities on the Great Blue Heron in Oregon. The Wilson Bulletin 88:661-662.

Wiggins, G.B., R.J. Mackay, and I.M. Smith. 1980. Evolutionary and ecological strategies of animals in annual tempory pools. Arch. Hydrobiol. 58:97-206.

Wilcove, D. 1985a. Forest fragmentation and the decline of migratory songbirds. Ph.D. thesis. Yale University.

Wilcove, D.S. 1985b. Nest predation in forest tracts and the decline of migratory songbirds. Ecology 66:1211-1214.

Williams, G.L. 1985. Classifying wetlands according to relative wildlife value: application to water impoundments. Pages 110-119 *in* D.K.M, compiler, editor. Water impoundments for wildlife: a habitat management workshop. U.S. For. Serv.

Willner, G.R., G.A. Feldhamer, E.E. Zucker, and J.A. Chapman. 1980. *Ondatra zibethicus*. Mammalian Species: American Society of Mammalogists 141:1-8.

WSDOE. 1993. Washington State Wetlands Rating System: Western Washington, Second Edition. Pub. No. 93-74, Washington State Department of Ecology, Olympia, Washington.

Yahner, R.H. 1989. Changes in wildlife communities near edges. Conservation Biology 2:333-339.

Yahner, R.H., T.E. Morrell, and J.S. Rachael. 1989. Effects of edge contrast on depredation of artificial avian nests. Journal of Wildlife Management 53:1135-1139.

Yahner, R.H., and D.P. Scott. 1988. Effects of forest fragmentation on depredation of artificial nests. Wildlife Management 52.

Yanes, M., J.M. Velasco, and F. Suarez. 1995. Permeability of roads and railways to vertebrates: the importance of culverts. Biological Conservation 71:217-222.